
CHEMICALS FOR THE BUILDING INDUSTRY



PRODUCTS CATALOGUE

HA
ITALIA

HRA

ITALIA

**SPECIAL PRODUCTS
DIVISION**



OUR DIVISION & MISSION

Since 1962 the Division of HA Italia S.p.A. in Schio plant is a leading company in the production of chemicals for the building industry.

Since 2018 the company is part of the international group Hüttenes Albertus Chemische Werke GmbH, which counts more than 1800 employees and more than 100 years of history in the chemical industry.

Thanks to the synergy created between the companies, HA Italia is pursuing a continuous technological and productive development.

HA Italia is mainly focused on the customer's loyalty and satisfaction, which are key factors in an ever-changing market. The company policy aims at fulfilling customer's needs, making him feel respected and appreciated in its peculiarities, instead of feeling been part of a standard and anonymous context.

First of all, HA Italia values the partnership between its technicians and customers, ensuring in this way the continuous products' improvement in order to meet the growing needs of the sector, with a constant attention to the market demands in terms of costs, quality, safety and environment.

To choose HA Italia means selecting a reliable, punctual and innovative partner, able to provide the customer with the right tools for the building industry and to efficiently solve his issues.



OUR PRODUCTION

We produce and sell liquid and paste products for the construction industry for waterproofing, protecting, coating, and bonding different types of surfaces, with the possibility of customised formulations according to specific customer requirements:

- Bituminous and synthetic Primers and Adhesion Promoters
- Primer e Sealants (spray)
- Bituminous and synthetic liquid waterproofing membranes
- Bituminous and Synthetic aluminium based paints and coatings
- Protective and decorated paints (in different colours)
- Paints and liquid sheaths with high Solar Reflectance Index (SRI)
- Remediation from Asbestos
- Bituminous Adhesives and Sealants
- Consolidative and Protective water-repellent and anti-saline products
- Complementary products such as plastic cement, cold-applied asphalts, road marking paints, protective and anti-corrosion products for metal surfaces, additives for mortars and thinners

OUR VALUE PROPOSITION

- High customization of product and packaging
- Packaging in private label
- R&D Team able to meet the new market needs
- Competence in developing formulations according to customer specific requirements
- Technical assistance and marketing support
- Consulting service with regards to regulations and products certifications
- Flexibility and logistic efficiency
- High productive capacity
- Certifications: ISO 9001, ISO 45001, ISO 14001 and ISO 50001



OUR PRODUCTS

PRODUCT CATEGORIES:

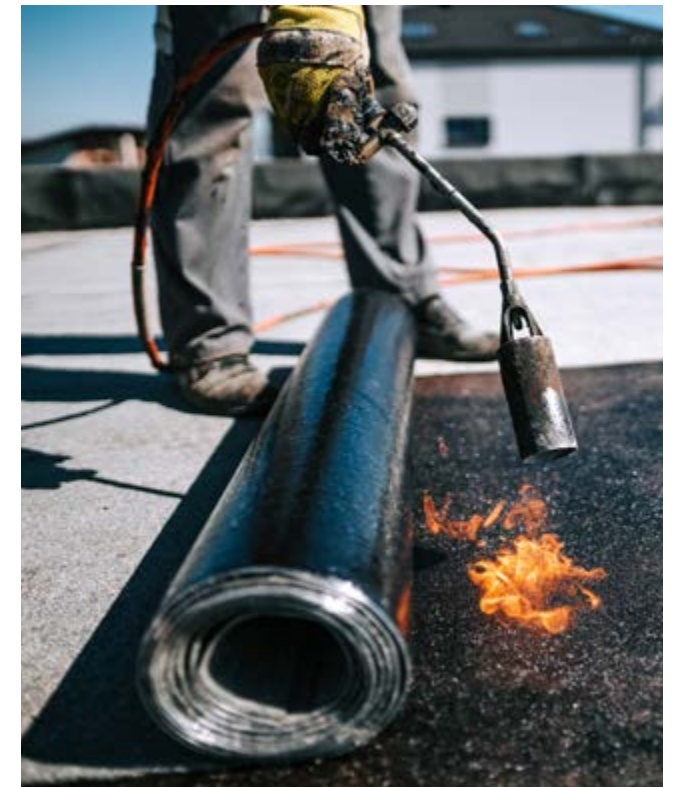
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PRIMER

Fixative and anti-dust primers, formulated with bitumen or synthetic resins; available on solvent or water basis, they are used:

- As priming coat on concrete structures like road bridges, bridges, foundation walls, coverings of civil and industrial buildings to promote adhesion and grant a good grip of polymer bitumen sheats for hot flame or cold laying applications, and of sealing made with liquid bituminous sheaths;
- As waterproofing paint on concrete foundation walls;
- As fixing primer reinforcing cement, wooden and metal surfaces, membranes or tiles polymer bitumen with slate finishing and asbestos-cement surfaces;
- To block the effects of dust and minimize concrete surfaces porosity

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HYDROPRIMER

Bituminous primer

Description: Water-based primer, formulated with bitumen in aqueous emulsion and special additives.

- Advantages:**
- Blocks the effects of dust and minimises porosity in concrete.
 - Favours the adhesion of polymer-bitumen membranes and ensures a good grip.
 - Excellent adhesion and penetration on all dry cement-based surfaces, including slightly wet ones.
 - No stickiness.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- Undercoat before hot bonding of polymer-bitumen membranes or the laying of liquid bituminous sheets on cement structures of viaducts, bridges, foundation walls, roofs of civil and industrial buildings.
 - Used as a consolidating fixative primer on cement, wood and metal surfaces.
 - Protection and waterproofing of both exposed and buried metal pipes and tanks.
 - Particularly indicated for waterproofing works in residential areas, where the use of solvent-based products is not recommended.
 - Suitable for forming a levelling mortar after mixing with cement class 32.5 R (cement: hydroprimer ratio equal to 1.6:1 in weight) and adding water, depending on the desired workability, in a quantity of about 1-2% on the weight of the mixture.

Surface preparation: Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.

- Application:**
- Apply by brush, broom, roller or spray.
 - Mix slightly before use.
 - Dilute up to 10% with water.
 - Equipment can be cleaned with water or with common synthetic thinners.

Consumption: The consumption of primer greatly depends on the porosity and therefore absorption by the surface: indicatively the consumption varies from 100-200 g/m².

- Warnings:**
- Apply the polymer-bitumen membranes on primer-coated concrete only when the latter is perfectly dry.
 - Application at extreme temperatures, both of the environment and of the surface, is not recommended.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:**
- 1, 5, 10, 18, 20 and 25 L metal or plastic pails.
 - 200 L metal drums.
 - 1000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Brown (Black once dry)
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(23÷27)%
Viscosity (Flow time at 20 °C, φ 4 mm cup)	EN ISO 2431	(14 ÷ 20) seconds
Density (at 20 °C)	EN ISO 2811-1	(0.97÷1.03)kg/L
pH (at 20 °C)		8.0÷11.0
Drying time		30 ÷ 60 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptivity of surfaces.



HYDROPRIMER PLUS

Bituminous primer with medium bitumen content

Description: Water-based primer, formulated with bitumen in aqueous emulsion and special additives.

- Advantages:**
- Blocks the effects of dust and minimises porosity in concrete.
 - Favours the adhesion of polymer-bitumen membranes and ensures a good grip.
 - Excellent adhesion and penetration on all dry cement-based surfaces, including slightly wet ones.
 - No stickiness.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- Undercoat before hot bonding of polymer-bitumen membranes or the laying of liquid bituminous sheets on cement structures of viaducts, bridges, foundation walls, roofs of civil and industrial buildings.
 - Used as a consolidating fixative primer on cement, wood and metal surfaces.
 - Protection and waterproofing of both exposed and buried metal pipes and tanks.
 - Particularly indicated for waterproofing works in residential areas, where the use of solvent-based products is not recommended.
 - Suitable for forming a levelling mortar after mixing with cement class 32.5 R (cement:hydroprimer plus ratio equal to 1.6:1 in weight) and adding water, depending on the desired workability, in a quantity of about 2-3% on the weight of the mixture.

Surface preparation: Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.

- Application:**
- Apply by brush, broom, roller or spray.
 - Mix slightly before use.
 - Dilute up to 20-25% with water.
 - Equipment can be cleaned with water or with common synthetic thinners.

Consumption: The consumption of primer greatly depends on the porosity and therefore absorption by the surface: indicatively the consumption varies from 100÷ 250 g/m².

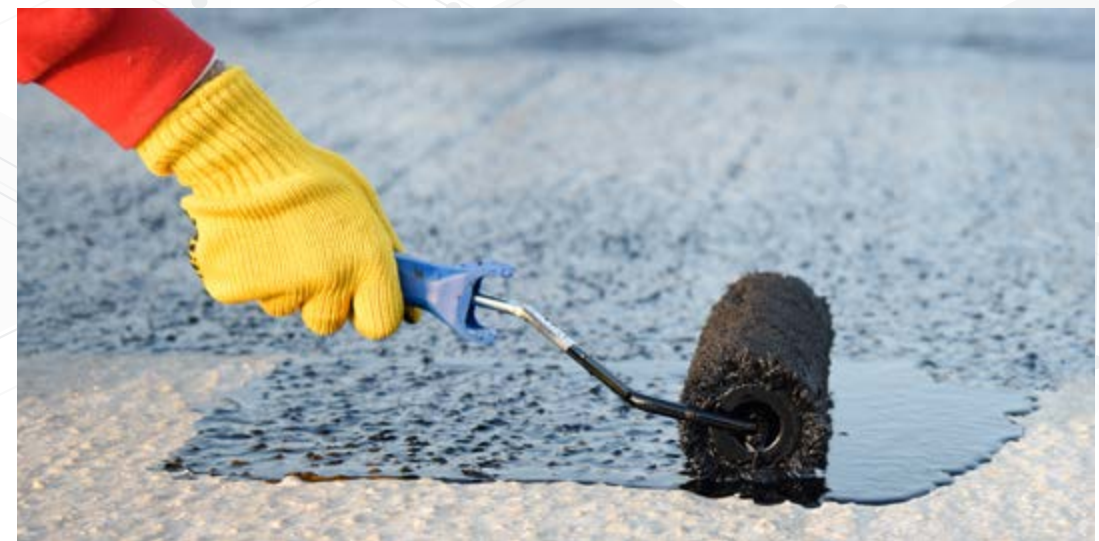
- Warnings:**
- Apply the polymer-bitumen membranes on primer-coated concrete only when the latter is perfectly dry.
 - Application at extreme temperatures, both of the environment and of the surface, is not recommended.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:**
- 1, 5, 10, 18, 20 and 25 L metal or plastic pails.
 - 200 L metal drums.
 - 1000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Brown (Black once dry)
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(32÷36)%
Viscosity (Flow time at 20 °C, φ 4 mm cup)	EN ISO 2431	(18 ÷ 26) seconds
Density (at 20 °C)	EN ISO 2811-1	(0.99÷1.05)kg/L
pH (at 20° C)		8.0÷11.0
Drying time		20 ÷ 40 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbcency of surfaces.



HYDROPRIMER PROOFCOAT

Bituminous primer with high bitumen content

Description: Water-based primer, formulated with bitumen in aqueous emulsion and special additives.

- Advantages:**
- Blocks the effects of dust and minimises porosity in concrete.
 - Favours the adhesion of polymer-bitumen membranes and ensures a good grip.
 - Excellent adhesion and penetration on all dry cement-based surfaces, including slightly wet ones.
 - No stickiness.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- Undercoat before hot bonding of polymer-bitumen membranes or the laying of liquid bituminous sheets on cement structures of viaducts, bridges, foundation walls, roofs of civil and industrial buildings.
 - Used as a consolidating fixative primer on cement, wood and metal surfaces.
 - Protection and waterproofing of both exposed and buried metal pipes and tanks.
 - Particularly indicated for waterproofing works in residential areas, where the use of solvent-based products is not recommended.
 - Suitable for forming a levelling mortar after mixing with cement class 32.5 R (cement:hydroprimer proofcoat ratio equal to 1:1 in weight) and adding water, depending on the desired workability, in a quantity of about 2-3% on the weight of the mixture.

Surface preparation: Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.

- Application:**
- Apply by brush, broom, roller or spray.
 - Mix slightly before use.
 - Equipment can be cleaned with water or with common synthetic thinners.

Consumption: The consumption of primer greatly depends on the porosity and therefore absorption by the surface: indicatively the consumption varies from 150÷ 300 g/m².

- Warnings:**
- Apply the polymer-bitumen membranes on primer-coated concrete only when the latter is perfectly dry.
 - Application at extreme temperatures, both of the environment and of the surface, is not recommended.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: - 1, 5, 10, 20, 25 and 30 L metal or plastic pails; 200 L plastic or metal drums; 1000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Brown (Black once dry)
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(37÷43)%
Viscosity (Flow time at 20 °C, φ 4 mm cup)	EN ISO 2431	(21 ÷ 27) seconds
Density (at 20 °C)	EN ISO 2811-1	(1.00÷1.06)kg/L
pH (at 20° C)		8.0÷11.0
Drying time		10÷30 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbcency of surfaces.



PRIMER ADEFIX

Adhesion primer for smooth or low absorbent surfaces

Description: Water-based adhesion primer formulated with selected synthetic resins and special additives, specific for smooth and low-absorbent surfaces.

- Advantages:**
- Forms a rough layer with high adhesion.
 - Allows a considerable increase in gripping of the treated surface.
 - Can be used both indoors and outdoors.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- Applied on substrates such as ceramic, stoneware, marble, brick, concrete, stone, plasterboard, wood, glass, metal, plaster, paint and insulating materials (EPS, XPS, PUR, mineral wool) as preparation of surfaces for subsequent applications (e.g., laying of flooring, ceramic coverings, using cement-based adhesives).
 - Pre-treatment on pre-existing ceramics before applying self-levelling mortars.
 - Preparation of the surface before applying plasters and skim coats on smooth mineral substrates (both vertically and horizontally).
 - Allows the application of cement-based adhesives on plaster surfaces.
 - Used on slightly friable concrete walls, it is an effective consolidating agent.
 - Applied on highly absorbent surfaces, it reduces and uniform water absorption, avoiding the risk of "burns".

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - The solidity and efficiency of the water run-off points must be checked before application.
 - The primer must be protected from rain, dew, or fog until it is completely dry: humidity and low temperatures lengthen drying times.

- Application:**
- Apply with a smooth trowel, roller or brush.
 - Mix well before use.
 - Primer Adefix is applied in a single coat.
 - After complete drying, proceed with the application of liquid acrylic sheaths or the desired finish.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Consumption varies between 200 and 500 g/m² depending on the nature and degree of porosity of the surface.

- Warnings:**
- We recommend applying the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - In winter, it is necessary to consider finishing application in the early afternoon to allow for the correct formation of the paint film (too humid days should always be avoided).
 - Avoid using on damp surfaces and in the presence of humidity backpressure phenomena.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).

Warnings:

- Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
- For further information, request the safety data sheet.

Packaging:

5, 10, and 20 kg metal or plastic pails.



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Technical data:

MAIN CHARACTERISTICS		
Appearance		Dense liquid
Colour		Grey
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(66÷74)%
Brookfield viscosity (at 20 °C, spindle 3, 10 rpm)	EN ISO 3219	(8,000±1,500)cP
Density (at 20 °C)	EN ISO 2811-1	(1.50÷1.60) kg/L
Drying time		60 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.

FIBER-FIX

Fixative primer for asbestos cement

Description: Fiber-Fix is a water-based fixative primer based on elastomeric resins.

- Advantages:**
- Excellent adhesion even on smooth and poorly absorbent surfaces.
 - Durable over time.
 - Weather resistant.
 - Easy to apply.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.
 - Improves the visualisation of the film on the roofing of the building during the renovation phase, thanks to its particular colour

- Applications:**
- Impregnation of the asbestos-cement slabs in order to prevent the dispersion of the fibres into the environment, during the phases of removal from the roofing of the asbestos-cement slabs, in the renovation works through their demolition.
 - It can be used as a pre-treatment to improve adhesion on gypsum and anhydrite substrates (protecting the plaster from humidity and preventing the expansive reaction between gypsum and cement), before applying cement-based adhesives to apply ceramic coatings.
 - It can be used to consolidate or pre-treat cement substrates (such as screeds or plasters) before laying cement adhesives or skim coats.
 - Used as a fixative before starting the restoration of roofs with the use of over-roofs made up of insulating packages.

- Surface preparation:**
- The asbestos cement slabs must be perfectly dry before proceeding with treatment.
 - Check that there is no rising damp or water backpressure.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Fiber Fix is ready for use, it needs careful mixing before use.
 - Apply by spraying with low pressure airless pumps, as the use of high pressure would lead to a significant release of fibres.

Consumption: The average consumption varies from 200 to 300 g/m² of total product.

- Warnings:**
- The operators in charge of the works must be equipped with respiratory protection equipment and protective overalls when working on the roof.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - We recommend following all the laws in this regard relating to remediation by embedding asbestos cement slabs.
 - Avoid extreme conditions of heat and cold and days with adverse weather conditions during application. The still wet layer can be washed away by rainwater or ruined by dew and frost.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 5, 10, and 20 kg metal or plastic pails. 200 kg metal drums. 1,000 kg IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Red
Shelf life in closed original packaging		12 months
Solid content (m/m at 130 °C)	EN ISO 3251	(19±21)%
Density (at 20 °C)	EN ISO 2811-1	(1.00 ÷ 1.06) kg/L
pH (at 20 °C)		7.5÷9.0
Viscosity (Flow time at 20 °C, Ø 4 mm cup)	EN ISO 2431	17÷23 seconds
Drying time		60÷120 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.

APPROVAL OF ENCAPSULANTS FOR REMEDIATION OF ASBESTOS CONCRETE STRUCTURES (MINISTERIAL DECREE 20/08/1999 according to UNI 10686/98)	
TYPE OF ENCAPSULATING COATINGS	PRODUCT APPLICATION PROCEDURE
(A) IN FULL VIEW FROM THE OUTSIDE	After cleaning the surfaces, apply a coat of red Fiber-Fix with variable consumption between 200 and 300 g/m ² . Once dried, after about 60 minutes apply 400 to 500 g/m ² for the first layer of Gumvern. After complete drying, apply the second coat of Gumvern, with a colour that contrasts with the previous coat, with a consumption of 400 ÷ 500 g/m ² .
(C) CONCEALED -in support of confinement works-	After cleaning the supports, apply three coats of Fiber-Fix, 40/60 minutes apart. Average consumption in three coats is about 400-450 g/m ² to obtain a minimum thickness of 200 µm.
(D) AUXILIARY -temporary encapsulation for removal-	After cleaning the surfaces, apply three coats of Fiber-Fix, 40/60 minutes apart. Average consumption in two coats is about 250 g/m ² to obtain a minimum thickness of 50 µm.

ECO PRIMER BIT 40-60

Bituminous primer with regenerated solvents

Description: Bitumen-based primer and selected organic solvents (solvents regenerated by activity in category R2).

- Advantages:**
- Blocks the effects of dust and minimises porosity in concrete.
 - Rapid drying of film, no stickiness.
 - Favours the adhesion of polymer-bitumen membranes and ensures a good grip.
 - Excellent adhesion and penetration on every dry concrete surface.
 - Does not drip at high temperature and resists at low temperatures.
 - No superficial oily substances.

- Applications:**
- Priming coat on concrete structures such as viaducts, bridges, foundation walls, roofing of civil and industrial buildings.
 - Apply before bonding hot flame or cold-laid polymer-bitumen membranes with bituminous binders such as Bitoglue Base or before the finishing coat with a liquid bituminous membrane.
 - Waterproofing paint on concrete foundation walls, fixing primer to reinforce cement, wood and metal surfaces.
 - Preparation of metal and wood surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between 0 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Apply by brush, broom or roller.
 - The product is ready to use. Possible specific application requirements or increased viscosity, caused by solvent evaporation, can be fixed by adding specific thinners (preferably based on aromatic solvents).
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: The consumption of primer is approximately 100÷200 g/m².

- Warnings:**
- When polymer-bitumen membranes are applied by hot flaming, we highly recommend using the product only if concrete surfaces are perfectly dry; alternatively, we suggest using a bituminous primer specific for wet surfaces.
 - Before covering, check that the primer must be completely dried.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Make sure that holes, joints and aerators are closed before application.
 - Do not use inside residential buildings or in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Store in tightly sealed original packaging.
 - Flammable product.
 - Do not expose to direct sunlight, temperatures higher than 30 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 5, 10, 20, 25 and 30 L metal pails.
 - 200 L metal drums; 1,000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	< +23 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(38÷42)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	11 ÷ 15 seconds
Density (at 20 °C)	EN ISO 2811-1	(0.93 ± 0.03) kg/L
Dust-free time		30÷50 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



ECO PRIMER BIT 50-50 WET

Bituminous primer with regenerated solvents for wet surfaces

Description: Bitumen-based primer, selected organic solvents and special additives to facilitate application on slightly damp surfaces.

- Advantages:**
- Blocks the effects of dust and minimises porosity in concrete.
 - Rapid drying of film, no stickiness.
 - Favours the adhesion of polymer-bitumen membranes and ensures a good grip.
 - Adhesion and penetration on all concrete surfaces.
 - Excellent adhesion also on damp surfaces.
 - Does not drip at high temperature and resists at low temperatures.
 - No superficial oily substances.

- Applications:**
- Priming coat on concrete structures such as viaducts, bridges, foundation walls, roofing of civil and industrial buildings.
 - Apply before bonding hot flame or cold-laid polymer-bitumen membranes with bituminous binders such as Bitoglue Base or before the finishing coat with a liquid bituminous membrane.
 - Waterproofing paint on concrete foundation walls, fixing primer to reinforce cement, wood and metal surfaces.
 - Used to prepare metal and wood surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between 0 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Apply by brush, broom or roller.
 - The product is ready to use. Possible specific application requirements or increased viscosity, caused by solvent evaporation, can be fixed by adding specific thinners (preferably based on aromatic solvents).
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: Consumption varies between 100 and 250 g/m².

- Warnings:**
- Before covering, check that the primer must be completely dried.
 - Make sure that holes, joints and aerators are closed before application.
 - Do not use inside residential buildings or in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Store in tightly sealed original packaging.
 - Flammable product.
 - Do not expose to direct sunlight, temperatures higher than 30 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 5, 10, 20, 25 and 30 L metal pails.
 - 200 L metal drums; 1,000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	< +23 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(47÷53)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	17 ÷ 23 seconds
Density (at 20 °C)	EN ISO 2811-1	(0.95 ± 0.03) kg/L
Dust-free time		25÷45 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



ECO PRIMER BIT 60-40

Protective bituminous coating with regenerated solvents for wet surfaces

Description: Quick-drying waterproofing and protective primer (tar) formulated with bitumen, selected solvents (solvents regenerated through category R2 activities) and special additives to facilitate application on slightly damp surfaces.

- Advantages:**
- Water repellent.
 - Resistant to chemical and atmospheric agents.
 - Rapid drying.
 - Excellent penetration and adhesion to the surface.
 - No sticky surface.
 - Forms a shiny surface film.
 - Can be applied directly on already rusted surfaces.
 - Excellent adhesion also on damp surfaces.

- Applications:**
- Suitable to protect gutters, piping, tanks, poles, transmission towers, carpentry, channels, scaffoldings and metal structures in general. It is recommended as waterproofing, as protection against humidity and corrosive chemical agents, in foundation walls, underground tanks, drainage pipes, septic tanks and sewers.
 - Used as a consolidating fixative primer on concrete, wood and metal surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between 0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Apply by brush, broom or roller.
 - It is always recommended to mix the product before use.
 - Eco Primer BIT 60-40 is ready for use. Possible specific application requirements or increased viscosity, caused by solvent evaporation, can be fixed by adding specific thinners (preferably based on aromatic solvents).
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: Primer consumption varies between 100 and 250 g/m².

- Warnings:**
- Before covering, check that the primer must be completely dried.
 - Make sure that holes, joints and aerators are closed before application.
 - Do not use inside residential buildings or in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Store in tightly sealed original packaging.
 - Flammable product
 - Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 1, 5, 10, and 20 L metal pails; 180 and 750 L metal drums; 1000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	< +21 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(59÷67)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	56÷74 seconds
Density (at 20 °C)	EN ISO 2811-1	(0.92÷1.00)kg/L
Drying time		20÷40 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



PRIMER BIT 50-102 TL

Bituminous primer with toluol

Description: Very fast drying primer, formulated with bitumen and pure organic solvents.

- Advantages:**
- Blocks the effects of dust and minimises porosity in concrete.
 - Rapid drying of film, no stickiness.
 - Favours the adhesion of polymer-bitumen membranes and ensures a good grip.
 - Excellent adhesion and penetration on every dry concrete surface.
 - Does not drip at high temperatures and does not become brittle at low temperatures.
 - No superficial oily substances.

- Applications:**
- Priming coat on concrete structures such as viaducts, bridges, foundation walls, roofing of civil and industrial buildings.
 - Apply before bonding hot flame or cold-laid polymer-bitumen membranes with bituminous binders such as Bitoglue Base or before the finishing coat with a liquid bituminous membrane.
 - Waterproofing paint on concrete foundation walls, fixing primer to reinforce cement, wood and metal surfaces.
 - Used to prepare metal and wood surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between 0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Apply by brush, broom or roller.
 - Primer BIT 50-102 TL is ready for use.
 - The tools can be cleaned with the common synthetic or nitro thinners.

The consumption of primer is approximately 150 g/m².

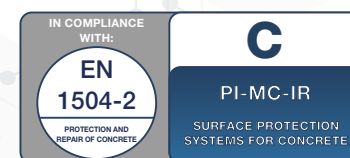
- Consumption:**
- When polymer-bitumen membranes are applied by hot flaming, we highly recommend using the product only if concrete surfaces are perfectly dry; alternatively, we suggest using a bituminous primer specific for wet surfaces.
- Warnings:**
- Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Before covering, check that the primer must be completely dried.
 - Make sure that holes, joints and aerators are closed before application.
 - Do not use inside residential buildings or in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Flammable product. Always keep the product in closed packaging.
 - Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 5, 10, 20, 25 and 30 L metal pails.
 - 200 L metal drums.
 - 1000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	< +21 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(47÷53)%
Viscosity (Flow time at 25 °C, DIN/4 mm cup)	EN ISO 2431	14 ÷ 20 seconds
Density (at 20 °C)	EN ISO 2811-1	(0.95±0.03) kg/L
Drying time (out of dust)		15÷30 minutes ¹
PERFORMANCE CHARACTERISTICS - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COVERINGS – PRINCIPLES: PI- MC- IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Classe I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbercy of surfaces.



PRIMER BIT 60-40 PI

Bituminous primer with xylene

Description: Very fast drying primer with high dry content, formulated with bitumen and pure organic solvents.

- Advantages:**
- Blocks the effects of dust and minimises porosity in concrete.
 - Rapid drying of film, no stickiness.
 - Favours the adhesion of polymer-bitumen membranes and ensures a good grip.
 - Excellent adhesion and penetration on every dry concrete surface.
 - Does not drip at high temperature and resists at low temperatures.
 - No superficial oily substances.
 - Slightly persistent and aggressive odour.

- Applications:**
- Priming coat on concrete structures such as viaducts, bridges, foundation walls, roofing of civil and industrial buildings.
 - Apply before bonding hot flame or cold-laid polymer-bitumen membranes with bituminous binders such as Bitoglue Base or before the finishing coat with a liquid bituminous membrane.
 - Waterproofing paint on concrete foundation walls, fixing primer to reinforce cement, wood and metal surfaces.
 - It is used in the preparation of metal and wooden surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between 0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Apply by brush, broom, roller or spray.
 - Primer BIT 60-40 PI is ready for use.
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: The indicative consumption of primer varies from 100 to 200 g/m², and depends on the porosity of the surface on which it is applied.

- Warnings:**
- When polymer-bitumen membranes are applied by hot flaming, we highly recommend using the product only if the concrete surfaces are perfectly dry; alternatively, we suggest using a bituminous primer specific for wet surfaces.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Before covering, check that the primer must be completely dried.
 - Make sure that holes, joints and aerators are closed before application.
 - Do not use inside residential buildings or in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Flammable product. Always store in tightly sealed original packaging.
 - Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Other versions: Primer Bit 60-40 PI WET is available as a version of the product with the addition of particular additives, which make it suitable for application even on slightly damp surfaces.

- Packaging:**
- 1, 5, 10, 20, 25 and 30 L metal pails
 - 200 L metal drums
 - 1,000 L IBC

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	> +23 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(59±65)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	25±35 seconds
Density (at 20 °C)	EN ISO 2811-1	(0.97±0.03) kg/L
Dust-free time		15±25 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Classe II (5<S _D < 50 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



PRIMER BIT PROTEX

Protective bituminous coating with xylene for wet surfaces

Description: Quick-drying waterproofing and protective primer (tar) formulated with bitumen, pure solvents and special additives to facilitate application on slightly damp surfaces.

- Advantages:**
- Water repellent.
 - Resistant to chemical and atmospheric agents.
 - Rapid drying.
 - Excellent penetration and adhesion to the surface.
 - No sticky surface.
 - Forms a shiny surface film.
 - Can be applied directly on already rusted surfaces.
 - Excellent adhesion also on damp surfaces.

- Applications:**
- Suitable to protect gutters, piping, tanks, poles, transmission towers, carpentry, channels, scaffoldings and metal structures in general. It is recommended as waterproofing, as protection against humidity and corrosive chemical agents, in foundation walls, underground tanks, drainage pipes, septic tanks and sewers.
 - Used as a consolidating fixative primer on concrete, wood and metal surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between 0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Apply by brush, broom or roller.
 - It is always recommended to mix the product before use.
 - Primer BIT PROTEX is ready for use. Possible specific application requirements or increased viscosity, caused by solvent evaporation, can be fixed by adding specific thinners (preferably based on aromatic solvents).
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: Primer consumption varies between 100 and 250 g/m².

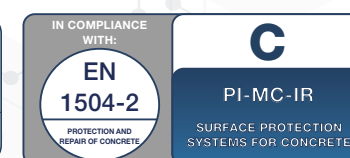
- Warnings:**
- Before covering, check that the primer must be completely dried.
 - Make sure that holes, joints and aerators are closed before application.
 - Do not use inside residential buildings or in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Store in tightly sealed original packaging.
 - Flammable product.
 - Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 5, 10, 20, 25 and 30 L metal pails
 - 200 L metal drums
 - 1000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	> +23 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(65÷73)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	58÷80 seconds
Density (at 20 °C)	EN ISO 2811-1	(0.93÷0.99)kg/L
Dust-free time		15÷25 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Classe I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbcency of surfaces.



PRIMER BIT PLUS BD

Viscous bituminous primer with organic solvents

Description: Very fast drying primer, formulated with bitumen and pure organic solvents.

- Advantages:**
- Blocks the effects of dust and minimises porosity in concrete.
 - Suitable as an anti-rust on metal surfaces
 - Favours the adhesion of polymer-bitumen membranes and ensures a good grip.
 - Excellent adhesion and penetration on every dry concrete surface.
 - Does not drip at high temperatures and does not become brittle at low temperatures.
 - No superficial oily substances.

- Applications:**
- Priming coat on concrete structures such as viaducts, bridges, foundation walls, roofing of civil and industrial buildings.
 - Apply before bonding hot flame or cold-laid polymer-bitumen membranes with bituminous binders such as Bitoglue Base or before the finishing coat with a liquid bituminous membrane.
 - Waterproofing paint on concrete foundation walls, fixing primer to reinforce cement, wood and metal surfaces.
 - Used to prepare metal and wood surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between 0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Apply by brush, broom or roller.
 - Primer BIT Plus BD is ready for use.
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: Total consumption of primer is approximately 300 g/m².

- Warnings:**
- When polymer-bitumen membranes are applied by hot flaming, we highly recommend using the product only if concrete surfaces are perfectly dry; alternatively, we suggest using a bituminous primer specific for wet surfaces.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Before covering, check that the primer must be completely dried.
 - Make sure that holes, joints and aerators are closed before application.
 - Do not use inside residential buildings or in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Flammable product. Always keep the product in closed packaging.
 - Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 5, 10, 20, 25 and 30 L metal pails
 - 200 L metal drums
 - 1000 L IBC

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	> +23 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(49÷55)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	60÷80 seconds
Density (at 20 °C)	EN ISO 2811-1	(0.87÷0.93)kg/L
Dust-free time		15÷45 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



PRIMER E BIT 50 SOLA

Bituminous primer with pure solvents and elastomers

Description: Very fast drying primer, formulated with bitumen, elastomeric resins and pure organic solvents.

- Advantages:**
- Blocks the effects of dust and minimises porosity in concrete.
 - Rapid drying of film, no stickiness.
 - Favours the adhesion of polymer-bitumen membranes and ensures a good grip.
 - Better elasticity and adhesion than common bituminous primers.
 - Does not drip at high temperatures and does not become brittle at low temperatures.
 - No superficial oily substances.

- Applications:**
- Priming coat on concrete structures such as viaducts, bridges, foundation walls, roofing of civil and industrial buildings.
 - Apply before bonding hot flame or cold-laid polymer-bitumen membranes with bituminous binders such as Bitoglue Base or before the finishing coat with a liquid bituminous membrane.
 - Waterproofing paint on concrete foundation walls, fixing primer to reinforce cement, wood and metal surfaces.
 - It is used in the preparation of metal and wooden surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between 0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Apply by brush, broom or roller.
 - Primer E BIT 50 SOLA is ready for use.
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: The consumption of primer is approximately 100-200 g/m².

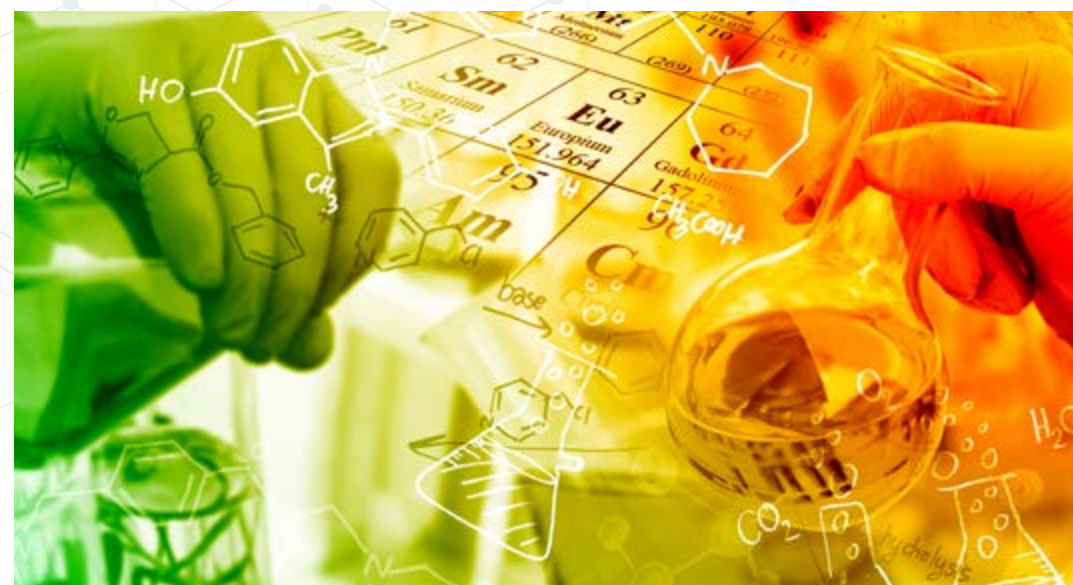
- Warnings:**
- When polymer-bitumen membranes are applied by hot flaming, we highly recommend using the product only if concrete surfaces are perfectly dry; alternatively, we suggest using a bituminous primer specific for wet surfaces.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Before covering, check that the primer must be completely dried.
 - Make sure that holes, joints and aerators are closed before application.
 - Do not use inside residential buildings or in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Flammable product. Store in sealed original packaging.
 - Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 5, 10, 20, 25 and 30 L metal pails.
 - 200 L metal drums.
 - 1000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	> +23 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(47÷53)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	20÷26 seconds
Density (at 20 °C)	EN ISO 2811-1	(0.94±0.04) kg/L
Dust-free time		15÷30 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



PRIMER XE BIT 50 XX

Bituminous primer with pure solvents with a high percentage of elastomers

Description: Fast drying primer, formulated with bitumen, elastomeric resins and pure organic solvents.

- Advantages:**
- Blocks the effects of dust and minimises porosity in concrete.
 - Rapid drying of film, no stickiness.
 - Favours the adhesion of polymer-bitumen membranes and ensures a good grip.
 - Better elasticity and adhesion than common bituminous primers.
 - Can also be applied on slightly damp surfaces.
 - Does not drip at high temperature and resists at low temperatures.
 - No superficial oily substances.
 - Slightly persistent and aggressive odour

- Applications:**
- Priming coat on concrete structures such as viaducts, bridges, foundation walls, roofing of civil and industrial buildings.
 - Apply before bonding hot flame or cold-laid polymer-bitumen membranes with bituminous binders such as Bitoglue Base or before the finishing coat with a liquid bituminous membrane.
 - Waterproofing paint on concrete foundation walls, fixing primer to reinforce cement, wood and metal surfaces.
 - In the preparation of metal and wood surfaces.
 - Excellent as a primer before applying self-adhesive membranes.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between 0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Apply by brush, broom or roller.
 - The product is ready to use.
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: The consumption of primer is approximately 100-200 g/m².

- Warnings:**
- Do not use inside residential buildings or in non-ventilated premises.
 - Before covering, check that the primer must be completely dried.
 - Make sure that holes, joints and aerators are closed before application.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Store in tightly sealed original packaging.
 - Flammable product
 - Do not expose to direct sunlight, temperatures higher than 30 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 5, 10, 20, 25 and 30 L metal pails.
 - 200 L metal drums.
 - 1000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	> +23 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(51÷57)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	19±25 seconds
Density (at 20 °C)	EN ISO 2811-1	(0.95±0.04) kg/L
Dust-free time		30±60 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbercy of surfaces.



PRIMER BIT 50-50 WET SPRAY

Multi-purpose bituminous primer spray

Description: Very fast drying primer, formulated with bitumen and pure organic solvents, in a spray can.

- Advantages:**
- Long-lasting protective action.
 - Blocks the effects of dust and minimises porosity in concrete.
 - Rapid drying of film, no stickiness.
 - Excellent adhesion on cement surfaces even if slightly damp.
 - No superficial oily substances.
 - Resistant to weathering and salt corrosion.
 - Increases the adhesion of anticorrosive tapes at low temperatures.
 - Ready for use.
 - Easy to apply.

- Applications:**
- Suitable for any type of surface, including metal, concrete, plastic and wood.
 - Adheres to any shape.
 - Priming coat on concrete structures such as viaducts, bridges, foundation walls, roofing of civil and industrial buildings.
 - Surfaces of bridges, roofs, pillars, steel structures, tanks, agricultural machinery chassis, car bodies, etc.
 - Preparation of surfaces and pipes before laying anticorrosive tapes, sleeves, slabs, etc.
 - Useful during the installation of fireplaces, solar panels, satellite dishes and antennas.
 - Protection of port and railway materials.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between 0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Shake the can well until you can hear the steel ball moving inside.
 - Spray intermittently to maintain a uniform jet.
 - Drying time depends on the thickness of the layer, the type of surface and ambient conditions.
 - Once the application is finished, turn over the can and spray for 1-2 seconds so that the nozzle remains clean and does not get blocked.

Consumption: One 500 ml spray can covers an area of about 3-4 m² depending on the desired layer thickness.

- Warnings:**
- Do not use indoors or in non-ventilated premises.
 - Store in tightly sealed original packaging.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Flammable product.
 - Do not expose to direct sunlight, temperatures higher than 30 °C, heat sources, open flames or other sources of ignition.
 - Pressurized container: may explode if heated.
 - Do not pierce or burn, even after use.
 - Comply with the information on the safety data sheet.

Packaging: 400 or 500 ml spray cans in boxes of 6/12/24 pcs.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Drying time		5 ÷ 15 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



PRIMERSINT E

Black viscous primer with pure solvents and synthetic resins

Description: Very fast drying synthetic primer, formulated with synthetic resins and pure organic solvents.

Advantages:

- Blocks the effects of dust and minimises porosity in concrete.
- Elasticity and adhesion to the surface clearly superior to bituminous primers, even at low temperatures.
- Very fast drying of the film, which considerably reduces the waiting time before laying the liquid membranes.
- Favours the application of both polymer-bitumen and synthetic self-adhesive membranes, ensuring an effective grip.

Applications:

- Primersint E is used on concrete, wood and metal structures (e.g., bridges, viaducts), as an adhesion promoter, before laying polymer-bitumen and synthetic membranes, and before applying liquid waterproofing sheaths, creating a clean and stable substrate.
- Product also suitable for the preparation of a base coat, on polymer-bitumen membranes, before applying paints or protective liquid sheaths.

Surface preparation:

- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
- Apply between +5°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

Application:

- Apply by brush, broom, roller or spray.
- The product is ready to use.
- The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: The yield of the primer depends greatly on the porosity and therefore on absorption by the support: there is an indicative consumption of around 100-200 g/m² on metal surfaces and 150-250 g/m² on cement-based surfaces.

Warnings:

- In the case of laying both self-adhesive and hot-flame synthetic and/or polymer-bitumen membranes, check the compatibility and correct adhesion of the primer with the membrane to be applied, by means of a preliminary test to be carried out on a small portion of the surface to be treated.
- Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
- Before coating, check that the primer is completely dry (in any case, it is recommended not to wait more than 24 hours before applying the waterproofing layer).
- Make sure that holes, joints and aerators are closed before application.
- Do not use inside residential buildings or in non-ventilated premises.
- Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
- Store in tightly sealed original packaging.
- Flammable product

Warnings:

- Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
- Comply with the information on the safety data sheet.

Packaging:

- 1, 5, 10, 20, 25 and 30 L metal pails.
- 200 L metal drums.
- 1000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	< +21 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(31÷35)%
Brookfield viscosity (at 20 °C, spindle 2; 20 rpm)	EN ISO 3219	(1,500±300)cP
Density (at 20 °C)	EN ISO 2811-1	(0.92±0.03) kg/L
Tack-free time		5÷15 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.

PRIMERSINT E



PRIMERSINT G2 NATURAL

Colourless primer fluid with pure solvents and synthetic resins

Description: Very fast drying synthetic primer, formulated with synthetic resins and pure organic solvents.

- Advantages:**
- Blocks the effects of dust and minimises porosity in concrete.
 - Elasticity and adhesion to the surface clearly superior to bituminous primers, even at low temperatures.
 - Very fast drying of the film, which considerably reduces the waiting time before laying liquid waterproofing membranes.
 - Excellent adhesion also on slightly damp surfaces.
 - Favours the application of both polymer-bitumen and synthetic self-adhesive membranes, ensuring an effective grip.

- Applications:**
- Primersint G2 Natural is used on concrete, wood and metal structures (e.g., bridges, viaducts), as an adhesion promoter, before laying polymer-bitumen and synthetic membranes, and before applying liquid waterproofing sheaths, creating a clean and stable substrate.
 - Product also suitable for the preparation of a base coat, on polymer-bitumen membranes, before applying paints or protective liquid sheaths.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between +5°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Apply by brush, broom, roller or spray.
 - The product is ready to use. Do not dilute.
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: The yield of the primer depends greatly on the porosity and therefore on absorption by the support: there is an indicative consumption of around 100-200 g/m² on metal surfaces and 150-300 g/m² on cement-based surfaces.

- Warnings:**
- In the case of laying both self-adhesive and hot-flame synthetic and/or polymer-bitumen membranes, check the compatibility and correct adhesion of the primer with the membrane to be applied, by means of a preliminary test to be carried out on a small portion of the surface to be treated.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Before coating, check that the primer is completely dry (in any case, it is recommended not to wait more than 24 hours before applying the waterproofing layer).
 - Make sure that holes, joints and aerators are closed before application.
 - The primer does not contain anticorrosive additives. Its purpose is to ensure adhesion by forming a continuous film for subsequent treatment. In the case of application on metal substrates that require long-term anti-corrosion protection, use of a specific primer is required.
 - Do not use inside residential buildings or in non-ventilated premises.

Warnings:

- Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
- Store in tightly sealed original packaging.
- Flammable product
- Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
- Comply with the information on the safety data sheet.

Packaging:

1, 5, 10, 20, 25 and 30 L metal pails; 200 L metal drums; 1000 L IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	> +23 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(28÷32)%
Brookfield viscosity (at 20 °C, spindle 2; 20 rpm)	EN ISO 3219	(380±70)cP
Density (at 20 °C)	EN ISO 2811-1	(0.91 ± 0.03) kg/L
Tack-free time		5÷15 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



METAL-FOND PRIMER

Adhesion promoting gripping primer

Description: Quick-drying primer, formulated with selected synthetic resins and pure organic solvents.

- Advantages:**
- High adhesion ability, including on pre-painted metal surfaces.
 - Quick drying film.
 - Promotes adhesion of subsequent finish coats.

Applications: Improves adhesion for subsequent surface applications of paints and liquid membranes on metal substrates such as aluminium, galvanised and/or painted sheet metal.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Apply at temperatures between 0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Mix Metal-Fond Primer thoroughly before application.
 - Apply by brush, broom, roller or spray.
 - The product is ready to use.
 - Drying time depends on the thickness of the film by the temperature of both the surface and the surrounding environment. The film generally dries within about an hour of application, which can take up to 2 hours in the presence of high primer thicknesses or cold temperatures.
 - The treated surfaces take on a dull and rough appearance.
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: Primer consumption varies between 200 and 300 g/m².

- Warnings:**
- Before covering, check that the primer must be completely dried.
 - Make sure that holes, joints and aerators are closed before application.
 - Do not use inside residential buildings or in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - In the presence of fog or very high humidity, the formation of the film and therefore the drying of the material will be slower. Even high thickness or dilution can increase drying times.
 - Flammable product.
 - Store in tightly sealed original packaging.
 - Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 5, 10, and 20 L metal pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Yellow-Orange
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	> +23 °C
Solid content (m/m at 130 °C)	EN ISO 3251	(28÷30)%
Density (at 20 °C)	EN ISO 2811-1	(0.94 ÷ 1.00) kg/L
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	22 ÷ 30 seconds
Drying time		60 ÷ 100 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.

PASSION and
 COMMITMENT
 for YOUR SUCCESS

PRIMERSINT B4

Fixative primer for asbestos cement

Description: Fixative primer, formulated with synthetic resins, selected solvents and special additives.

- Advantages:**
- Good adhesion even on superficially unbonded slabs.
 - Good consolidating power of surface dirt.
 - Resistant to weathering and UV rays.
 - Film resistant to moulds, algae and lichens.
 - Blocks the effects of dust and minimises porosity in concrete.
 - Very fast drying of the film, which considerably reduces the waiting time before laying the liquid membranes.
 - Elasticity and adhesion to the substrate clearly superior to bituminous primers, even at low temperatures (below 10 °C).
 - Favours the adhesion of polymer-bitumen membranes and ensures a good grip.
 - Thanks to its unique red colour, it improves visibility of the film on the coating of the structure during the remediation process, by embedding, of the asbestos cement slabs.

- Applications:**
- Impregnation of asbestos-cement slabs in order to prevent the dispersion of asbestos fibres in the environment (combine with Gumvern W liquid sheath coating).
 - On smooth concrete structures, as a gripping base coat, before applying: hot flame bitumen, polymer-bitumen membranes and liquid waterproofing sheaths, creating a clean and stable base.
 - On wood and metal surfaces.
 - Preparation of the substrate on polymer-bitumen membranes before applying paint or liquid protective sheaths.

- Surface preparation:**
- The asbestos cement slabs must be perfectly dry before proceeding with treatment.
 - Check that there is no rising damp or water backpressure.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.
 - Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.

- Application:**
- The product is ready to use. Apply by spray, roller or brush.
 - Apply each coat in the opposite direction to the previous one to be sure of total coverage of the surfaces.
 - Clean equipment with white spirit or synthetic thinners.

Consumption: Primer consumption ranges from 200 to 400 g/m² on asbestos-cement slabs; from 100 to 200 g/m² on metal surfaces; from 150 to 250 g/m² on concrete and wood surfaces.

- Warnings:**
- Apply the liquid sheaths only when the primer is perfectly dry.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - The operators in charge of the remediation work must be equipped with respiratory protection equipment and protective overalls when working on the roof.

- Warnings:**
- We recommend following all the laws in this regard relating to remediation by embedding asbestos cement slabs.
 - Avoid application in bad weather conditions. The still wet layer can be washed away by rainwater or ruined by dew and frost.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Do not use inside residential buildings or in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Do not expose to direct sunlight, temperatures higher than 30 °C, heat sources, open flames or other sources of ignition.
 - Flammable product. Store in tightly sealed original packaging.
 - Comply with the information on the safety data sheet.

Packaging: 5, 10, and 20 L metal pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Red
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	> 46°C
Solid content (m/m at 130 °C)	EN ISO 3251	(23÷25)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	17÷23 seconds
Density (at 20 °C)	EN ISO 2811-1	(0.86÷0.92) kg/L
Drying time (at 23°C; 50% RH)		30÷60 minutes ¹
APPROVAL OF ENCAPSULANTS FOR REMEDIATION OF ASBESTOS CONCRETE STRUCTURES (MINISTERIAL DECREE 20/08/1999 according to UNI 10686/98)		
TYPE OF ENCAPSULATING COATINGS	PRODUCT APPLICATION PROCEDURE	
(A) IN FULL VIEW FROM THE OUTSIDE <i>-solvent/water-based mixed cycle-</i>	<ul style="list-style-type: none"> • After cleaning the surfaces, apply a coat of Primersint B4 with consumption varying between 200 and 300 g/m²; • Once dried, after about 4 hours apply 400 to 500 g/m² for the first layer of Gumvern W. • After complete drying, apply the second coat of Gumvern W, with a colour that contrasts with the previous coat, with a consumption of 400-500 g/m². 	

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



LIQUID SHEATHS

Protective and decorative waterproofing liquid products formulated with bitumen or synthetic resins; available on solvent or water basis, they are used to:

- Waterproof when the application of bitumen sheaths in rolls is difficult;
- Cover and waterproof floors, walkways, balconies, terraces, old bituminous surfaces, bathrooms and saunas floors, tiles, sheet coverings and grounded walls;
- Create a waterproofing and bonding primer for subsequent bonding of tiles with the appropriate cementitious adhesives;
- Make an encapsulating cover for the consolidation of asbestos cement sheets;
- Level and waterproof plasters with micro-cracks.

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■ water based products

■ solvent based products



ASFALTMULL EXTRA

Cold mix asphalt

Description: Water-based bituminous waterproofing paste.

- Advantages:**
- Good resistance to saline solutions.
 - Easy cold application.
 - Resistant to aging.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- It is suitable for waterproofing concrete structures of foundations and retaining walls.
 - Repair and seal non-walkable slabs of flat, inclined or curved roofs affected by micro-cracks or cracks not subject to heavy expansion.
 - It is particularly suitable where the use of solvent-based products is prohibited.
 - Suitable for forming a levelling mortar after mixing with class 32.5 R cement and sand (weight ratio: 1/3 cement, 1/3 sand, 1/3 Asphaltmull Extra) and adding water, depending on the desired workability, in a quantity of about 20-25% on the weight of the mixture.
 - It can be used as a primer, to stop dust on concrete surfaces, when diluted with about 30% water.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - It can also be applied on damp surfaces due to the presence of particular additives that equally allow adhesion.
 - Apply between +5°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Mix before use. Apply as is by broom, brush, airless spray or roller.
 - To improve product performance, we recommend applying two coats.
 - The second coat should be applied when the first is perfectly dry.
 - The product is completely dry on average after 8 hours at a temperature of 25 °C (depending on the surface and the quantity of product applied).
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - If left exposed, the dried film is to be protected with reflective paints or water-based coloured decorative paints.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: On average, total consumption is equal to 1-1.5 Kg/m².

- Warnings:**
- Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Avoid applying the product on surfaces subject to standing water.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.

Warnings: - For further information, request the safety data sheet.

- Packaging:**
- 5, 10, or 20 kg metal or plastic pails;
 - 200 kg plastic or metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid paste
Colour		Dark brown
Shelf life in closed original packaging		12 months
Solid content (<i>m/m at 130 °C</i>)	EN ISO 3251	(49÷55)%
Brookfield viscosity (<i>at 20 °C, spindle 5; 10 rpm</i>)	EN ISO 3219	(28,000±5,500) cP
Density (<i>at 20 °C</i>)	EN ISO 2811-1	(1.17÷1.25) kg/L
pH (<i>at 20 °C</i>)		8.0÷11.0
Drying time		90÷120 minutes ¹
Complete drying time		12 hours ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



ASFALTMULL TOT

Cold mix asphalt with a high bitumen content

Description: Multi-purpose water-based bituminous waterproofing paste.

- Advantages:**
- Good resistance to saline solutions.
 - Easy cold application.
 - Resistant to aging.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- It is suitable for waterproofing concrete structures of foundations and walls against infiltration and soil moisture.
 - Waterproof and protect dry and damp porous surfaces, based on cement, wood, brick, etc.
 - Repair and seal non-walkable slabs of flat, inclined or curved roofs affected by micro-cracks or cracks not subject to heavy expansion.
 - Internal coating of concrete tanks and reservoirs.
 - It is particularly suitable where the use of solvent-based products is prohibited.
 - It can be used as a primer, to stop dust on concrete surfaces, when diluted with about 30% water.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - It can also be applied on damp surfaces due to the presence of particular additives that equally allow adhesion.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Mix Asfaltmull TOT before use.
 - Apply as is by broom, brush, airless spray or roller.
 - To improve product performance, we recommend applying two coats. The second coat should be applied when the first is perfectly dry.
 - At 25 °C the product is completely dry on average after 8 hours (changes depend on the surface and the quantity of product applied).
 - If left exposed, the dried film is to be protected with reflective paints or water-based coloured decorative paints.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Consumption depends on the porosity of the surfaces to be treated and varies between 0.5-1.0 kg/m² (per coat).

- Warnings:**
- Apply the product on the side of the structure exposed to water (water stress under positive pressure).
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Product not compatible with cement.
 - Do not use to coat surfaces in contact with drinking water.

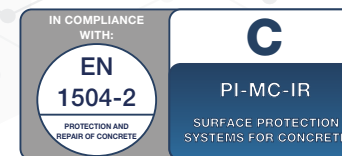
- Warnings:**
- Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:**
- 1, 5, 10, and 20 kg metal or plastic pails.
 - 200 kg metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid paste
Colour		Dark brown (Black once dry)
Shelf life in closed original packaging		12 months
Solid content <i>(m/m at 130 °C)</i>	EN ISO 3251	(63÷70)%
Brookfield viscosity <i>(at 20 °C, spindle 5, 10 rpm)</i>	EN ISO 3219	(18.000±4.000) cP
Density <i>(at 20 °C)</i>	EN ISO 2811-1	(0.95÷1.01) kg/L
pH <i>(at 20 °C)</i>		6.0÷8.0
Drying time		90÷120 minutes ¹
Complete drying time		12 hours ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



ASFALTMULL MAP

Cold mix asphalt

Description: Water-based bituminous waterproofing paste modified with special resins and additives.

- Advantages:**
- Good resistance to saline solutions.
 - Easy cold application.
 - Resistant to aging.
 - Superior adhesion and elasticity compared to normal bituminous emulsions.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- It is suitable for waterproofing concrete structures of foundations and retaining walls.
 - Repair and seal non-walkable slabs of flat, inclined or curved roofs affected by micro-cracks or cracks not subject to heavy expansion.
 - It is particularly suitable where the use of solvent-based products is prohibited.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - It can also be applied on damp surfaces due to the presence of particular additives that equally allow adhesion.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Mix Asfaltmull Map before use.
 - Apply as is by broom, brush, or roller.
 - To improve product performance, we recommend applying two coats.
 - The second coat should be applied when the first is perfectly dry.
 - The product is completely dry on average after 8 hours at a temperature of 25 °C (changes depend on the surface and the quantity of product applied).
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - If left exposed, the dried film is to be protected with reflective paints or water-based coloured decorative paints.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Consumption depends on the porosity of the surfaces to be treated and varies between 1.0-1.5 kg/m² (per coat).

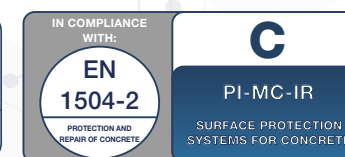
- Warnings:**
- We recommend applying the product at ambient temperatures no lower than +5 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat.
 - Avoid applying the product on surfaces subject to standing water.
 - Do not use to coat surfaces in contact with drinking water.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:**
- 5, 10, and 20 kg metal or plastic pails.
 - 200 kg plastic or metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid paste
Colour		Black
Shelf life in closed original packaging		12 months
Solid content (<i>m/m at 130 °C</i>)	EN ISO 3251	(74÷82)%
Brookfield viscosity (<i>at 20 °C, spindle 6; 10 rpm</i>)	EN ISO 3219	(60,000±12,000)cP
Density (<i>at 20 °C</i>)	EN ISO 2811-1	(1.35÷1.45)kg/L
pH (<i>at 20 °C</i>)		8.0÷11.0
Drying time		100÷150 minutes ¹
Complete drying time		12 hours ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



ASFALTMULL FLEX

Fibre-reinforced cold mix asphalt

Description: Water-based bituminous waterproofing paste, with special fibres added.

- Advantages:**
- Good resistance to saline solutions.
 - Easy cold application.
 - Resistant to aging.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- Suitable for waterproofing roofs, fibre cement, foundation structures, balconies, terraces.
 - It is best used for expansion joints, cracks, interstices of terraces, channels, wells, where an elastic-waterproof seal resistant to acid-alkaline solutions is required.
 - It is particularly suitable where the use of solvent-based products is prohibited.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - It can also be applied on damp surfaces due to the presence of particular additives that equally allow adhesion.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Mix Asfaltmull Flex before use.
 - Apply as is by broom, brush, airless spray or roller.
 - To improve product performance, we recommend applying two coats.
 - The second coat should be applied when the first is perfectly dry.
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - If left exposed, the dried film is to be protected with reflective paints or water-based coloured decorative paints.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: On average, total consumption is equal to 0.8-1.2 Kg/m².

- Warnings:**
- Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Avoid applying the product on surfaces subject to standing water.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:**
- 5, 10, 20 or 25 kg metal or plastic pails.
 - 200 kg plastic or metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid paste
Colour		Dark brown (Black once dry)
Shelf life in closed original packaging		12 months
Solid content (m/m at 130 °C)	EN ISO 3251	(48÷54)%
Brookfield viscosity (at 20 °C, spindle 5; 10 rpm)	EN ISO 3219	(45,000±9,000) cP
Density (at 20 °C)	EN ISO 2811-1	(1.02±1.08) kg/L
pH (at 20 °C)		8.0±11.0
Drying time		90÷120 minutes ¹
Complete drying time		12 hours ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



ASFALTMULL 2000

Cold mix asphalt with synthetic resins

Description: Water-based bituminous waterproofing paste modified with special resins.

- Advantages:**
- Good resistance to saline solutions.
 - Easy cold application.
 - Good resistance to chemicals, fumes, gases, and vapours.
 - Superior adhesion and elasticity compared to normal bituminous emulsions.
 - Excellent resistance to acid and alkaline solutions.
 - Resistant to aging.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- It is suitable for waterproofing concrete structures of foundations and walls against infiltration and soil moisture.
 - Repair and seal non-walkable slabs of flat, inclined or curved roofs affected by micro-cracks or cracks not subject to heavy expansion.
 - Protection against chemicals.
 - Waterproof and protect internal and external, horizontal or vertical surfaces made of cement, fibre cement, wood, brick, asphalt, felt, etc.
 - Internal coating of concrete tanks and reservoirs.
 - Bonding of insulation panels into the perimeter insulation against the ground.
 - It is particularly suitable where the use of solvent-based products is prohibited.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - It can also be applied on damp surfaces due to the presence of particular additives that equally allow adhesion.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Mix Asfaltmull 2000 before use.
 - Apply as is by broom, brush, airless spray or roller.
 - To improve product performance, we recommend applying two coats. To improve penetration and facilitate adhesion of subsequent coats, it is advisable to dilute the first coat with water. The dilution ratio (water:asfaltmull) varies according to the absorption of the substrate from 1:1 to 1:6. Subsequent coats should be applied without diluting.
 - The second coat should be applied when the first is perfectly dry.
 - At 25 °C the product is completely dry after 6 hours (depending on the surface and the quantity of product applied).
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - To fasten insulation panels, to make thicker waterproofing layers, or to speed up the drying reaction, cement or sand and cement mixtures can be added to Asfaltmull 2000. Do not exceed 5% in weight of cement compared to Asfaltmull 2000 (20 kg of Asfaltmull 2000 plus 1 kg of cement) in order to avoid excessive viscosity of the mass. The amount

- Application:**
- of sand to be added depends on its grain size and to the thickness to obtain. A sand to cement ratio of 2:1 is normally used.
 - If left exposed, the dried film is to be protected with reflective paints or water-based coloured decorative paints.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Consumption depends on the porosity of the surfaces to be treated and varies between 0.5-1.0 kg/m² (per coat).

- Warnings:**
- Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is $\leq 5\%$ by weight (for screeds with a density of 2000 kg/m³).
 - Apply the product on the side of the structure exposed to water (water stress under positive pressure).
 - Do not use to coat surfaces in contact with drinking water.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal or plastic pails; 200 kg metal drums.



ASFALTMULL 2000

Cold mix asphalt with synthetic resins

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid paste
Colour		Dark brown (Black once dry)
Shelf life in closed original packaging		12 months
Solid content (m/m at 130 °C)	EN ISO 3251	(57÷63)%
Brookfield viscosity (at 20 °C, spindle 5; 10 rpm)	EN ISO 3219	(28,000±6,000) cP
Density (at 20 °C)	EN ISO 2811-1	(0.95±1.01) kg/L
pH (at 20 °C)		9.0±11.0
Drying time		6 hours ¹
Waiting time for applying the next coat		12-24 hours ¹
Complete drying time		2-4 days ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Liquid water permeability	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



ELASTIGUM MZ

Bituminous liquid sheath

Description: Multi-purpose liquid waterproofing membrane, formulated with bitumen in aqueous emulsion, selected elastomeric resins, and special additives.

- Advantages:**
- Good elasticity.
 - Waterproofs and protects against weathering.
 - Cold laying, without fire risk and directly on the old bituminous sheaths without having to remove them.
 - Resistant to standing water on the surface even in the absence of a slope.
 - Perfect adherence, suitable for complex construction details and resistant to micro-cracking.
 - Compatible with cement-based adhesives.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.
 - Good resistance to saline solutions.

- Applications:** Suitable for waterproofing:
- Deteriorated waterproofing.
 - Flat, non-walkable roofing on concrete surfaces.
 - Retaining walls of foundations and manholes.
 - Balconies, terraces.
 - Bathrooms and showers.
 - Fibre cement roofs.
 - Sheet metal roofing.
 - Where it is difficult to apply polymer-bitumen membranes and shingles and to use a flame.
 - Coat and waterproof concrete balconies, before gluing the stoneware or clinker tiles where the solution with polymer-bitumen membranes is not feasible.
 - Create a waterproofing and bonding base for the subsequent bonding of tiles with the appropriate cement-based adhesives (category C according to EN 12004).
 - Diluted by 50%, it can be used as an anti-dust primer and in any case, it already creates a waterproof surface on which to apply one or more layers of product.
 - It is suitable for cold bonding of polymer-bitumen membranes in the new waterproofing of surfaces made of concrete or wood, replacing traditional torch-applied bonding. Can be used for bonding insulation panels on horizontal surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - Can also be applied on slightly damp surfaces.

- Application:**
- Mix before use.
 - Apply by roller, broom, brush or airless spray (dilution with water is possible).
 - It is generally applied in two coats: the first after dilution with water up to 5%, the second as is. Apply the second coat once the first is completely dry, after 24/48 hours, depending on the ambient conditions and the porosity of the surface.

- Application:**
- On surfaces larger than 10 m² or stressed supports, we recommend reinforcing Elastigum MZ with suitable non-woven polyester fabric reinforcement, embedded in the still fresh first coat.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

- Consumption:**
- The consumption of the product depends on the surface and the desired thickness but usually varies between 1.2 and 1.8 kg/m² overall. On average, to obtain a 1 mm dry film, the quantity of product used will be approximately 1.6 kg/m².
 - Applying non-woven polyester reinforcement, the total consumption is 1.8-2.2 kg/m².

- Warnings:**
- We recommend applying the product at ambient temperatures no lower than +5 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - We recommend applying the product on surfaces not subject to standing water.
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Application on slabs or particularly damp supports should include the use of suitable vents to prevent bubbles from forming by eliminating the condensation that forms under the waterproof membrane.
 - Never exceed the recommended quantity for each layer to avoid blocking the evaporation of water contained in the bituminous liquid product, which would otherwise get trapped under the dried film.
 - Temperatures above 35 °C adversely affect the workability of the product by causing the surface film to dry too quickly.
 - For exposed waterproofing, it is always recommended to over-paint the produced waterproof membranes with suitable protective coatings.
 - It can be stepped on in case of occasional maintenance.
 - Do not use on surfaces subject to rising damp or strong water pressure.
 - Protect from frost, do not expose the packages to temperatures below +5 °C.
 - Once frozen, the product is no longer recoverable.
 - For further information, request the safety data sheet.

- Packaging:**
- 1, 5, 10, and 20 kg metal or plastic pails.
(Pails with attached internal resealable nylon bag available on request).
 - 200 kg metal drums.

Other versions: Elastigum MZ Antiradice is available; it is a version of the product with the addition of special additives that make it ideal for waterproofing surfaces in contact with plants, flowers, and vegetation in general. Elastigum FR is available; it is a version of the bituminous liquid sheath with the addition of fibres, which increase its mechanical resistance, and which do not require the use of a reinforcing layer.

ELASTIGUM MZ

Bituminous liquid sheath

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colour		Black (after drying)
Shelf life in closed original packaging		12 months
Solid content (m/m at 130 °C)	EN ISO 3251	(60÷68)%
Brookfield viscosity (at 20 °C, spindle 6; 10 rpm)	EN ISO 3219	(50,000±10,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.21±0.04)kg/L
pH (at 20 °C)		8.3÷9.0
Flexibility at low temperatures	UNI EN 15813	-30°C
Dimensional stability at high temperature	UNI EN 15818	+150°C
Tack-free time		4 hours
Drying time for recoating		24÷48 hours ¹
Operating temperature		-30°C ÷ +80°C
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Liquid water permeability	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



PERFORMANCE PROPERTIES - EN 14891 - LIQUID APPLIED WATER IMPERMEABLE PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES -		
PERFORMANCE PROPERTIES	EN 14891 REQUIREMENTS	PRODUCT PERFORMANCE
Initial Tensile Adhesion Strength	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after water contact	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after heat ageing	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after freeze-thaw cycle	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after contact with chlorinated water	> 0.5 N/mm ²	> 0.5 N/mm ²
Water impermeability	No penetration	Impermeable
Crack Bridging Ability (at -20 °C)	> 0.75 mm	> 0.75 mm
CLASSIFICATION ACCORDING TO UNI EN 14891	CLASS DM O2	Impermeable product applied in liquid dispersion with improved crack bridging ability at low temperatures (-20 °C))

ELASTIFOND GUM

Self-protected bituminous liquid sheath

Description: High-thickness liquid waterproofing coating, formulated with bitumen in aqueous emulsion, selected elastomeric resins, rubber granules, and special additives.

- Advantages:**
- High mechanical resistance to damage resulting from stones, bricks, humidity, salt spray, and infiltration, as well as accidental damage caused by backfill operations.
 - High waterproofing power.
 - Excellent adhesion to the surface.
 - Constant elasticity even on structures subject to frequent movements without the risk of microcrack formation.
 - Easy laying: allows considerable savings in time and labour.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- Waterproofing of horizontal and vertical surfaces in concrete and brick.
 - Gluing insulation panels used to protect perimeter waterproofing.
 - External waterproofing of foundations, cellars, underground garages, and load-bearing walls.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - The surfaces to be treated must be mature and aged and must not have defects or irregularities that lead to applying excessively thick layers of product and compromising regular drying.
 - Check that there is no rising damp or water backpressure.

- Application:**
- Used as is with a spatula or smooth steel or plastic trowel.
 - We recommend wetting with water and keeping the spatula clean to favour yield.
 - The material remains easily workable for up to 2/3 hours after opening the pail. If you interrupt application, it is sufficient to close the nylon bag inside the packaging.
 - Backfill operations can take place with a perfectly dry product, 72/96 hours after application on the last part of the structure.
 - Wash tools with water immediately after use; after hardening, the product should be removed with hot water or common thinners.

Consumption: On average, to achieve 2 mm thickness of dry product, consumption is approximately 2.5 - 3.5 kg/m² depending on the type of surface. Product consumption should ensure a minimum thickness of 2 mm and can reach a maximum thickness of 3 mm on vertical surfaces and 5 mm on horizontal surfaces.

- Warnings:**
- We recommend applying the product on surfaces not subject to standing water.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.

- Warnings:**
- It can be stepped on in case of occasional maintenance.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 5, 10, and 20 kg metal or plastic pails.
(Pails with attached internal resealable nylon bag available on request).

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Black
Shelf life in closed original packaging		12 months
Solid content (m/m at 130 °C)	EN ISO 3251	(76÷83)%
Brookfield viscosity (at 20 °C, spindle 6; 10 rpm)	EN ISO 3219	(70,000±14,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.39÷1.49)kg/L
pH (at 20 °C)		6.5÷8.5
Drying time		2 days ¹
Operating temperature		-30°C ÷ +80°C
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbcency of surfaces.



ELASTIFOND POL

Lightweight elastomer-bituminous liquid sheath

Description: Lightweight high-thickness liquid waterproofing coating, formulated with bitumen in aqueous emulsion, selected elastomeric resins, polystyrene, and special additives.

- Advantages:**
- Resistance to aggressive natural substances present in soil.
 - High waterproofing power.
 - Excellent adhesion to the surface, even on slightly damp mineral substrates and on sufficiently stable bituminous surfaces.
 - High flexibility and stability.
 - Ready for use. Suitable for application by spray.
 - Applicable thickness on vertical surfaces thanks to its great thixotropic properties.
 - Meets the requirements for thick coatings in accordance with EN 15814.
 - Easy application: thanks to its low weight, it allows considerable savings in time and labour.
 - Non-toxic product, free from solvents. Odourless, non-flammable product.

- Applications:**
- High-thickness bituminous coating (PMBC) with polystyrene spheres, for the waterproofing of structures in contact with solid according to EN 15814 and DIN 18533.
 - Protection of components in contact with soil according to DIN 18533 part 3 within the application area according to DIN 18533 for water exposure classes W1-E, W3-E and W4-E. It can be used on underground horizontal and vertical surfaces, floors, foundations, and cellar walls. It can be used on suitable mineral surfaces (e.g., concrete, bricks, etc.).
 - External waterproofing of foundations, cellars, underground garages, and tanks.
 - External waterproofing of load-bearing walls.
 - Waterproofing of horizontal reinforced concrete structures under screeds decoupled from the substrate with protective sheets.
 - Bonding of insulation panels to concrete, masonry, and thick dried insulating coatings.
 - Creation of durable and flexible external coatings, for buildings in contact with the earth, applicable by both trowel and spray. Suitable for horizontal and sloping surfaces.
 - Intermediate insulation (under the floor) of slabs, balconies, and terraces, as well as adhesive for rigid foam panels on bituminous and mineral substrates of buildings in contact with the ground.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - The surfaces to be treated must be mature and aged and must not have defects, irregularities or gravel patches (these discontinuities can be repaired or levelled with suitable cement-based products).
 - The horizontal surfaces (subsequently buried or under screed) must have a slope of not less than 1% in order to facilitate the flow of water outwards or towards any collection points.
 - After duly preparing the surface, apply (before Elastifond Pol) a water-based bituminous primer to uniform absorption by the surface.

- Application:**
- It is used as is with a flat or notched trowel and by spray with a peristaltic pump.
 - Do not interrupt work in corner areas; in the event of breaks, apply Elastifond Pol by tapering to zero. When resuming work, overlap the material by 10 cm. Depending on the conditions of use of the structure, it may be necessary to interpose a mesh of alkali-resistant fibreglass between the first and second coat of Elastifond Pol. The reinforcement should be spread on the first layer while it is still fresh; the second layer can be applied only after the first has dried perfectly.
 - To prevent bubbles from forming, in case of direct solar radiation, we recommend shading the surface or working in the early hours of the morning or in the evening.
 - At the time of filling the foundation trench or applying subsequent protective layers, Elastifond Pol must be dry (> 2 days at +23°C and 50% RH).
 - Drying time can vary depending on weather conditions, temperature and humidity, wind, the applied thickness and also the type of surface.
 - Before backfilling, protect the waterproofed surfaces with suitable protective drainage layers.
 - Backfill operations can take place with a perfectly dry product, 48/72 hours after application on the last part of the structure.
 - Wash tools with water immediately after use; after hardening, the product should be removed with hot water or common thinners.

Consumption: Approximately 0.8 kg/m² per mm of dry product thickness, the indicated consumption (see summary table) relates to the application of a continuous film on a flat surface and increases if the surface is irregular. Please note that to achieve the performances as per standard EN 15814 (see final performance values in the technical data table), the product should be applied in two coats in the thicknesses indicated by the standard.

- Warnings:**
- Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.
 - Do not mix with solvents, cements/additives.
 - Do not apply in case of rain or conditions of high ambient humidity.
 - Check that there is no water backpressure.
 - Before backfilling, protect the waterproofing surface with suitable protective drainage layers (use draining material that does not subject the waterproofing to punching).
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 5 and 30 L plastic pails.

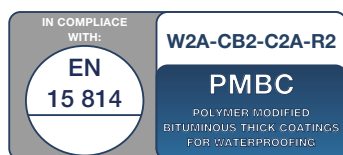
ELASTIFOND POL

Lightweight elastomer-bituminous liquid sheath

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Brown
Shelf life in closed original packaging		12 months
Solid content (m/m at 130 °C)	EN ISO 3251	(60÷70)%
Density (at 20 °C)	EN ISO 2811-1	(0.65÷0.75)kg/L
pH (at 20 °C)		9÷11
Complete drying time		4 days ¹
Application temperature		+5°C ÷ +30°C
PERFORMANCE PROPERTIES - EN 15814 POLYMER MODIFIED BITUMINOUS THICK COATINGS FOR WATERPROOFING (PMCB)		
Crack Bridging Ability (at +4 °C)	EN 15812	Class CB2
Impermeability under pressure on 1 mm open crack	EN 15820	Class W2A
Resistance to compression	EN 15815	Class C2A
Resistance to rain	EN 15816	Class R2
Water resistance	EN 15817	No colouration of the water, no debonding from inlay
Flexibility at low temperature a (0 °C)	EN 15813	No cracks
Dimensional stability at high temperature (+70 °C)	EN 15818	No sliding or draining down
Reaction to fire	EN 13501-1	E

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



THICKNESS/CONSUMPTION TABLE

Load in accordance with DIN 18533	Dry layer thickness ¹ (mm)	Wet layer thickness (mm)	Consumption (kg/m ²)
W1-E: Ground damp	3	3.70	2.50
W3-E: Pressure-free water on earth-covered ceilings	4	4.90	3.30
W4-E: Splash water and ground damp at wall base	3	3.70	2.50

¹ Application carried out in 2 coats of product



ELASTIFLEX

Multi-purpose pigmented bituminous acrylic liquid sheath

Description: Multi-purpose water-based waterproofing product, formulated with bitumen, selected elastomeric resins and special additives.

- Advantages:**
- High waterproofing power.
 - Excellent adhesion to the surface.
 - High elasticity.
 - Durable over time.
 - Resistant to weathering and UV rays.
 - Resistant to standing water.
 - Easy laying: allows considerable savings in time and labour.
 - It can be left exposed or covered with cement mortar and can be painted.
 - Walkable (not for continuous traffic).
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** To waterproof and protect, both vertically and horizontally:
- Concrete: foundations, cement surfaces in general, plaster.
 - Metal and glass.
 - Polymer-bitumen membranes or old bituminous sheaths to be restored.
 - Plasters and plasterboard.
 - Wooden roofs.
 - Ceramic floorings, bathrooms, showers, vases, and planters.
 - Bond polymer-bitumen membranes with other elements only on slated membranes.
- Base coat for laying:
- Cement-based materials such as tile adhesives (with CE mark: EN 12004 type C).
 - Protective cement plasters in the case of foundations.
 - Cement-based bedding mortars for tiles and shingles in the case of sloping roofs.
 - Gluing insulation panels on porous supports.
 - Diluted by 50%, it can be used as an anti-dust primer and in any case, it already creates a waterproof surface on which to apply one or more layers of product.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Elastiflex can also be applied on slightly damp surfaces.
 - The concrete surfaces to be treated must be duly aged and must not have defects or irregularities that lead to applying excessively thick layers of product and compromising regular drying.
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - Check that there is no rising damp or water backpressure.

- Application:**
- Apply as is with a roller, spray, spatula, rakel, or brush.
 - Apply Elastiflex preferably in two coats and wait 12-24 hours before applying the next coat, depending on the ambient temperature and humidity. To speed up application, the second coat can be applied wet on wet if the first has been reinforced, even if it is

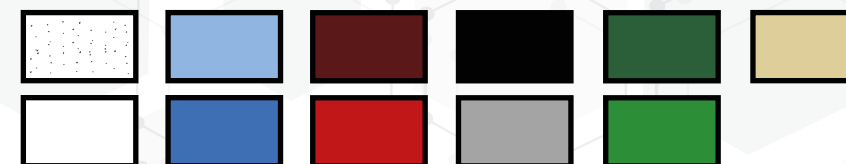
- Application:**
- preferable to wait for the following day.
 - On surfaces larger than 10 m² or in case of vertical applications or application on stressed supports, we recommend reinforcing Elastiflex with suitable non-woven polyester fabric, embedded in the still fresh first coat.
 - Wash tools with water immediately after use; after hardening, the product should be removed with hot water or common thinners.

Consumption: Product consumption depends on the support and the desired thickness; on average, to obtain a dried film of 1 mm, the amount of product used will be about 1.5 kg/m². Average product consumption with 2 coats without reinforcement about 1.5-2 kg/m², with reinforcement about 2-2.5 kg/m².

- Warnings:**
- We recommend applying the product on surfaces not subject to standing water.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Elastiflex can be applied in combination with polymer-bitumen membranes, for example for the creation of details. In this case, Elastiflex must be applied before laying the membrane (do not reverse the laying phases if the membrane has no mineral protection).
 - In the case of application on old bituminous waterproofing to be restored and without mineral finish, check the adhesion of Elastiflex before applying.
 - It is important to apply the product at an ambient temperature between +5 °C and +35 °C. With temperatures below +10 °C, add the additive Impre-Velox to reduce the drying time of the product and increase the resistance to washout in the first hours after application.
 - Avoid extreme conditions of heat and cold and days with adverse weather conditions during application. The still wet layer can be washed away by rainwater or ruined by dew and frost.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 1, 5, 10, and 20 kg metal or plastic pails.

Available colours:



NB: other colours are available on request for minimum production quantities.

Other versions:

Elastiflex Antiradice is available; it is a version of the product with the addition of special additives that make it ideal for waterproofing surfaces in contact with plants, flowers, and vegetation in general.

ELASTIFLEX

Multi-purpose pigmented bituminous acrylic liquid sheath

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colours		Black, White, Grey, Red, Green, Blue, Off-White
Shelf life in closed original packaging		24 months
Maximum application thickness (in 2 coats)		3 mm
Solid content (m/m at 130 °C)	EN ISO 3251	Black (66÷74)%
		White (66÷74)%
		Grey (66÷74)%
		Red (66÷74)%
		Green (63÷70)%
		Blue (66÷74)%
		Off-White (66÷74)%
Brookfield viscosity (at 20°C, spindle 5; 10 rpm)	EN ISO 3219	(30,000±6,000)cP
Density (at 20 °C)	EN ISO 2811-1	Black (1.30÷1.40)kg/L
		White (1.30÷1.40)kg/L
		Grey (1.30÷1.40)kg/L
		Red (1.25÷1.35)kg/L
		Green (1.24÷1.32)kg/L
		Blue (1.25÷1.35)kg/L
pH (at 20° C)		7.0÷8.0
Tensile bond strength on wood/metal	EN 1542	1.70 N/mm ²
Elongation at break	EN 12311	>200%
Cold flexibility	EN 1109	-10°C
Tack-free time		90-120 minutes ¹
Drying time for recoating		24÷48 hours ¹
Operating temperature		-30°C ÷ +80°C

PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PR-PI-MC-IR)

Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²
Abrasion resistance (Taber test)	EN ISO 5470-1	< 3 g
Impact resistance	EN ISO 6272-1	class III (≥ 20 Nm)
Crack Bridging Ability (method A)	UNI EN 1062-7	class A5 (≥ 10 mm)

RESISTANCE TO STATIC INDENTATION EOTA TR 007

LOAD	LOAD CATEGORY	RESULT
150 N	P2	Product water resistance: LEVEL L2 (WITH LOAD CATEGORY P2)

RESISTANCE TO DYNAMIC INDENTATION EOTA TR 006

TYPE OF PUNCH	PUNCH DIAMETER	RESULT
L2	20 mm	Product water resistance: LEVEL L2

PERFORMANCE PROPERTIES - EN 14891 - LIQUID APPLIED WATER IMPERMEABLE PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES -

PERFORMANCE PROPERTIES	EN 14891 REQUIREMENTS	PRODUCT PERFORMANCE
Initial Tensile Adhesion Strength	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after water contact	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after heat ageing	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after freeze-thaw cycle	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after contact with chlorinated water	> 0.5 N/mm ²	> 0.5 N/mm ²
Water impermeability	No penetration	Impermeable
Crack Bridging Ability (a -5 °C)	> 0.75 mm	> 0.75 mm
CLASSIFICATION ACCORDING TO UNI EN 14891	CLASS DM 01	Impermeable product applied in liquid dispersion with improved crack bridging ability at low temperatures (-5 °C)

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



ELASTIFLEX TOP

Highly elastic, multi-purpose pigmented bituminous acrylic liquid sheath

Description: Multi-purpose water-based waterproofing product, formulated with bitumen, selected elastomeric resins and special additives.

- Advantages:**
- Excellent adhesion to the surface.
 - Superior elastic and waterproofing properties.
 - Durable over time.
 - Resistant to weathering and UV rays.
 - Resistant to standing water.
 - Easy laying: allows considerable savings in time and labour.
 - It can be left exposed or covered with cement mortar and can be painted.
 - Walkable (not for continuous traffic).
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- To waterproof and protect, both vertically and horizontally:
- Concrete: foundations, general cement surfaces, plaster.
 - Metal and glass.
 - Polymer-bitumen membranes or old bituminous sheaths to be restored.
 - Plasters and plasterboard.
 - Wooden roofs.
 - Ceramic floorings, bathrooms, showers, vases, and planters.
 - Bond polymer-bitumen membranes with other elements only on slated membranes.
- Base coat for laying:
- Cement-based materials such as tile adhesives (with CE mark: EN 12004 type C).
 - Protective cement plasters in the case of foundations.
 - Cement-based bedding mortars for tiles and shingles in the case of sloping roofs.
 - Gluing insulation panels on porous supports.
 - Diluted by 50%, it can be used as an anti-dust primer and in any case, it already creates a waterproof surface on which to apply one or more layers of product.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Can also be applied on slightly damp surfaces.
 - The surfaces to be treated must be mature and aged and must not have defects or irregularities that lead to applying excessively thick layers of product and compromising regular drying.
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - Waterproofing details with polymer-bitumen membranes must be made before laying the membrane (avoid inverting the laying phases).
 - Check that there is no rising damp or water backpressure.

- Application:**
- Apply as is with a roller, spatula, rakel, or brush.
 - Apply Elastiflex Top preferably in two coats and wait 12-24 hours before applying the next coat, depending on the ambient temperature and humidity. To speed up ap-

- Application:**
- plication, the second coat can be applied wet on wet if the first has been reinforced, even if it is preferable to wait for the following day.
 - On surfaces larger than 10 m² or in case of vertical applications or application on stressed supports, we recommend reinforcing Elastiflex Top with suitable non-woven polyester fabric, embedded in the still fresh first coat.
 - Wash tools with water immediately after use; after hardening, the product should be removed with hot water or common thinners.

- Consumption:**
- Product consumption depends on the support and the desired thickness; on average, to obtain a dried film of 1 mm, the amount of product used will be about 1.5 kg/m². Average product consumption with 2 coats without reinforcement about 1.5-2 kg/m², with reinforcement about 2.0-2.5 kg/m².

- Warnings:**
- We recommend applying the product on surfaces not subject to standing water.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - In the case of application on old bituminous waterproofing to be restored and without mineral finish, check the adhesion of Elastiflex Top before applying.
 - It is important to apply the product at an ambient temperature between +5 °C and +35 °C. With temperatures below +10 °C, add the additive Impre-Velox to reduce the drying time of the product and increase the resistance to washout in the first hours after application.
 - Avoid extreme conditions of heat and cold and days with adverse weather conditions during application. The still wet layer can be washed away by rainwater or ruined by dew and frost.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:** 1, 5, 10, and 20 kg metal or plastic pails.



**QUALITY
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by CHANCE**

ELASTIFLEX TOP

Highly elastic, multi-purpose pigmented bituminous acrylic liquid sheath

Available colours:



Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colour		Black, Grey, Red
Shelf life in closed original packaging		24 months
Maximum application thickness (in 2 coats)		3 mm
Solid content (m/m at 130 °C)	EN ISO 3251	(73÷81)%
Brookfield viscosity (at 20 °C, spindle 6; 10 rpm)	EN ISO 3219	(65,000±13,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.45÷1.55)kg/L
pH (at 20 °C)		7.0÷8.0
Tensile bond strength on wood/metal	EN 1542	1.70 N/mm ²
Cold flexibility	EN 1109	-10°C
Elongation at break	EN 12311	>200%
Tack-free time		90-120 minutes ¹
Drying time for recoating		24÷48 hours ¹
Operating temperature		-30°C ÷ +80°C

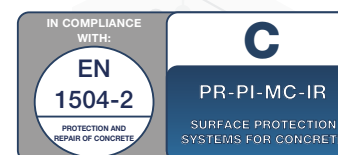
¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbercy of surfaces.

PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PR-PI-MC-IR)		
PERFORMANCE PROPERTIES	METHOD	PRODUCT PERFORMANCE
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Classe I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²
Abrasion resistance (Taber test)	EN ISO 5470-1	< 3 g
Impact resistance	EN ISO 6272-1	class III (≥20 Nm)
Crack Bridging Ability (method A)	EN 1062-7	class A5 (≥ 10 mm)

RESISTANCE TO STATIC INDENTATION EOTA TR 007		
LOAD	LOAD CATEGORY	RESULT
150 N	P2	Product water resistance: LEVEL L2 (WITH LOAD CATEGORY P2)

RESISTANCE TO DYNAMIC INDENTATION EOTA TR 006		
TYPE OF PUNCH	PUNCH DIAMETER	RESULT
L2	20 mm	Product water resistance: LEVEL L2

PERFORMANCE PROPERTIES - EN 14891 - LIQUID APPLIED WATER IMPERMEABLE PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES		
PERFORMANCE PROPERTIES	EN 14891 REQUIREMENTS	PRODUCT PERFORMANCE
Initial Tensile Adhesion Strength	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after water contact	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after heat ageing	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after freeze-thaw cycle	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after contact with chlorinated water	> 0.5 N/mm ²	> 0.5 N/mm ²
Water impermeability	No penetration	Impermeable
Crack Bridging Ability (at -5 °C)	> 0.75 mm	> 0.75 mm
CLASSIFICATION ACCORDING TO UNI EN 14891	CLASS DM 01	Impermeable product applied in liquid dispersion with improved crack bridging ability at low temperatures (-5 °C)



ELASTIFLEX TOP

Highly elastic, multi-purpose pigmented bituminous acrylic liquid sheath

Technical data:

PERFORMANCE PROPERTIES - EN 15814 POLYMER MODIFIED BITUMINOUS THICK COATINGS FOR WATERPROOFING (PMCB) ¹		
PERFORMANCE PROPERTIES	METHOD	PRODUCT PERFORMANCE
Crack Bridging Ability at +4 °C (Resistance to cracking)	EN 15812	Class CB2
Impermeability under pressure on 1 mm open crack	EN 15820	Class W2B
Resistance to compression	EN 15815	Class C2B
Resistance to rain	EN 15816	Class R2
Water resistance	EN 15817	No colouration of the water
Flexibility at low temperature 0°C	EN 15813	No cracks
Dimensional stability at high temperature +70°C	EN 15818	No sliding or draining down
Reduction of layer thickness when fully dried	EN 15819	35%
Reaction to fire	EN 13501-1	E

¹ Please note that to achieve the final performances as per standard EN 15814 (technical data table), at least two coats of the product should be applied in the thicknesses indicated by the standard (dry thickness > 3 mm)..



**Today.
tomorrow.
to be continued**



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GUMVERN NATURAL GM

Protective transparent elastomeric liquid sheath

Description: Transparent, waterproofing elastomeric liquid sheath. Waterproofing liquid membrane formulated based on selected synthetic resins in water dispersion and special additives.

- Advantages:**
- Reduces concrete carbonation phenomena.
 - Long-lasting waterproofing resistant to weathering and UV rays.
 - Cold laying, without fire risk and directly on the old bituminous sheaths without having to remove them.
 - Perfect adherence, suitable for complex construction details and resistant to micro-cracking.
 - Low maintenance, does not require additional protection.
 - Resistant to standing water on the surface even in the absence of a slope.
 - Also suitable for surfaces in industrial areas or near the sea.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** To cover and waterproof:
- Flat roofs, balconies, terraces, bathrooms, showers, saunas, old bituminous surfaces, tiles, sheet metal roofs and retaining walls.
 - Concrete balconies, before gluing the stoneware or clinker tiles where the solution with polymer-bitumen membranes is not feasible.
 - Create a waterproofing and bonding base for the subsequent bonding of tiles with the appropriate cement-based adhesives (category C according to EN 12004).
 - Fibre-cement, wood, and metallic surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Surfaces with irregularities, plaster and castings that are too rough, holes, gravel patches, cracks, etc. need to be repaired and/or smoothed.
 - The solidity and efficiency of the water run-off points must be checked before application.
 - On non-visible lightened or waterproofed screeds (under screed, underfloor, etc.) check the internal humidity and whether or not it is necessary to lay vapour vents.
 - The waterproofing must be protected from rain, dew, and fog until completely dry. Humidity and low temperatures lengthen drying time.

- Application:**
- Apply by brush, broom, roller or spray.
 - Mix well before use.
 - As a first coat, apply Gumvern Natural GM diluted up to 15% with water.
 - The second coat has to be applied as is and on the film of the completely dry first coat.
 - Gumvern Natural GM can be reinforced between one coat and the other with fibreglass or polyester non-woven fabric sheet, thus enhancing the mechanical properties of the new waterproofing.
 - Apply on new roofs with membranes without a mineral finish only after a coat of Elastigum ST diluted at 10% or Primer Adefix as is.

Application: - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: The application must include at least two coats to give a uniform colour to the waterproofing layer, using a total of 400 g/m² of Gumvern Natural GM depending on the nature and degree of porosity of the surface and the desired thickness.

- Warnings:**
- Apply the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - We recommend applying the product on surfaces not subject to standing water.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - If the roof includes insulating packages, a shorter restore is advisable.
 - It can be stepped on in case of occasional maintenance.
 - When applying on polymer-bitumen membranes or bituminous surfaces, check in advance the adhesion of the product before applying.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:**
- 1, 5, 10, 20 and 25 kg metal or plastic pails.
 - 200 kg metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick opalescent liquid
Colour		Transparent
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(30÷34)%
Brookfield viscosity (at 20 °C, spindle 5; 10 rpm)	EN ISO 3219	(12,000±3,000)cP
Density (at 20 °C)	EN ISO 2811-1	(0.95÷1.01)kg/L
Dust-free time		2 hours ¹
Complete drying time		48 hours ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.

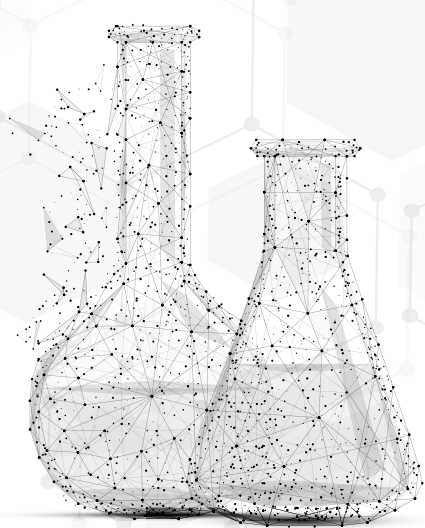
GUMVERN NATURAL GM

Protective transparent elastomeric liquid sheath

Technical data:

PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

PERFORMANCE PROPERTIES - EN 14891 – LIQUID APPLIED WATER IMPERMEABLE PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES		
PERFORMANCE PROPERTIES	EN 14891 REQUIREMENTS	PRODUCT PERFORMANCE
Initial Tensile Adhesion Strength	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after water contact	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after heat ageing	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after freeze-thaw cycle	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after contact with chlorinated water	> 0.5 N/mm ²	> 0.5 N/mm ²
Water impermeability	No penetration	Impermeable
Crack Bridging Ability (at -5 °C)	> 0.75 mm	> 0.75 mm
CLASSIFICATION ACCORDING TO UNI EN 14891	CLASS DM 01	Impermeable product applied in liquid dispersion with improved crack bridging ability at low temperatures (-5 °C)



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ECO GUM CAM

Decorative and protective pigmented elastomeric liquid sheath

Description: Coloured liquid waterproofing membrane formulated based on selected synthetic resins in water dispersion and special additives.

- Advantages:**
- Reduces concrete carbonation phenomena.
 - Long-lasting waterproofing resistant to weathering.
 - Cold laying, without fire risk and directly on the old bituminous sheaths without having to remove them.
 - Perfect adherence, suitable for complex construction details and resistant to micro-cracking.
 - Resistant to standing water.
 - Low maintenance, does not require additional protection.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** To cover and waterproof:
- Roofs made of concrete structures.
 - Terraces with concrete floors, suitable for polymer-bitumen membranes applied both hot and cold.
 - Concrete balconies, before gluing the stoneware or clinker tiles where the solution with polymer-bitumen membranes is not feasible.
 - Metal surfaces, fibre cement, wood, polycarbonate.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Surfaces with irregularities, plaster and castings that are too rough, holes, gravel patches, cracks, etc. need to be repaired and/or smoothed.
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - On non-visible lightened or waterproofed screeds (under screed, underfloor, etc.) check the internal humidity and whether or not it is necessary to lay vapour vents.
 - The waterproofing must be protected from rain, dew, and fog until completely dry. Humidity and low temperatures lengthen drying time.

- Application:**
- Apply Ecogum Cam by brush, broom, roller or spray.
 - Mix well before use.
 - As a first coat, apply Ecogum Cam diluted up to 25% with water.
 - The second coat has to be applied as is or with a lower dilution on the film of the dry first coat.
 - Ecogum Cam can be reinforced between one coat and the other with fibreglass or polyester non-woven fabric, thus enhancing the mechanical properties of the new waterproofing.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: The application must include at least two coats to give a uniform colour to the waterproofing layer, using a total of 1.5-2 kg/m² of Ecogum depending on the nature and degree of porosity of the surface and the desired thickness.

- Warnings:**
- Apply the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - We recommend applying the product on old polymer-bitumen membranes after applying a base coat of Primersint G2 Natural.
 - We recommend applying the product on surfaces not subject to standing water.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - If the roof includes insulating packages, a shorter restore is advisable.
 - It can be stepped on in case of occasional maintenance.
 - When applying on polymer-bitumen membranes or bituminous surfaces, check in advance the adhesion of Ecogum Cam before applying.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal or plastic pails.

Available colours:



NB: other colours are available on request for minimum production quantities.

Technical data:

PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²



ECOGUM CAM

Decorative and protective pigmented elastomeric liquid sheath

Technical data:

MAIN CHARACTERISTICS		
Appearance		Fluid thixotropic paste
Colour		Red, White, Grey, Black, Green
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	Red (64÷70)%
		White (64÷70)%
		Grey (64÷70)%
		Black (65÷73)%
		Green (64÷70)%
Brookfield viscosity (at 20 °C, spindle 5; 10 rpm)	EN ISO 3219	Red (22,500±3,500) cP
		White (22,500±3,500) cP
		Grey (22,500±3,500) cP
		Black (21,000±4,000) cP
		Green (22,500±3,500) cP
Density (at 20 °C)	EN ISO 2811-1	Red (1.50÷1.60) kg/L
		White (1.50÷1.60) kg/L
		Grey (1.50÷1.60) kg/L
		Black (1.55÷1.65) kg/L
		Green (1.50÷1.60) kg/L
Dust-free time		4 hours ¹
Complete drying time		48 hours ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.

ECOGUM



CAM

GUMVERN GM

Decorative and protective pigmented elastomeric liquid sheath

Description: Coloured waterproofing liquid membrane formulated based on selected synthetic resins in water dispersion and special additives.

- Advantages:**
- Reduces concrete carbonation phenomena.
 - Long-lasting waterproofing resistant to weathering and UV rays.
 - Cold laying, without fire risk and directly on the old bituminous sheaths without having to remove them.
 - Perfect adherence, suitable for complex construction details and resistant to micro-cracking.
 - Low maintenance, does not require additional protection.
 - Resistant to standing water on the surface even in the absence of a slope.
 - Also suitable for surfaces in industrial areas or near the sea.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** To cover and waterproof:
- Flat roofs, balconies, terraces, bathrooms, showers, saunas, old bituminous surfaces, tiles, sheet metal roofs and retaining walls.
 - Concrete balconies, before gluing the stoneware or clinker tiles where the solution with polymer-bitumen membranes is not feasible.
 - Create a waterproofing and bonding base for the subsequent bonding of tiles with the appropriate cement-based adhesives (category C according to EN 12004).
 - Fibre-cement, wood, polycarbonate, and metallic surfaces.
 - Encapsulating coating for the remediation of asbestos cement products.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Surfaces with irregularities, plaster and castings that are too rough, holes, gravel patches, cracks, etc. need to be repaired and/or smoothed.
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - On non-visible lightened or waterproofed screeds (under screed, underfloor, etc.) check the internal humidity and whether or not it is necessary to lay vapour vents.
 - The waterproofing must be protected from rain, dew, and fog until completely dry. Humidity and low temperatures lengthen drying time.

- Application:**
- Apply Gumvern GM by brush, broom, roller or spray.
 - Mix well before use.
 - As a first coat, apply Gumvern GM diluted up to 25% with water.
 - The second coat has to be applied as is or with a lower dilution on the film of the dry first coat.
 - Gumvern GM can be reinforced between one coat and the other with fibreglass or polyester non-woven fabric, thus enhancing the mechanical properties of the new waterproofing.
 - Apply Gumvern GM on new roofs with membranes without a mineral finish only after

- Application:**
- a coat of Elastigum ST diluted at 10% or Primer Adefix as is.
 - On polymer-bitumen membranes placed on insulating packages, the product must be applied with non-woven fabric reinforcement.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: The application must include at least two coats to give a uniform colour to the waterproofing layer, using a total of 1.0-1.5 kg/m² of Gumvern GM depending on the nature and degree of porosity of the surface and the desired thickness. In the case of reinforcement, the increase in consumption depends on its nature and thickness.

- Warnings:**
- Apply the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - We recommend applying the product on old polymer-bitumen membranes after applying a base coat of Primersint G2 Natural.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - We recommend applying the product on surfaces not subject to standing water.
 - If the roof includes insulating packages, a shorter restore is advisable.
 - It can be stepped on in case of occasional maintenance.
 - When applying on polymer-bitumen membranes or bituminous surfaces, check in advance the adhesion of Gumvern GM before applying.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:**
- 1, 5, 10, 20 and 25 kg metal or plastic pails.
 - 200 kg metal drums.

Available colours:



NB: other colours are available on request for minimum production quantities.

GUMVERN GM

Decorative and protective pigmented elastomeric liquid sheath

Technical data:

MAIN CHARACTERISTICS		
Appearance		Fluid thixotropic paste
Colours		White, Grey, Red, Green, Black, Off-White, Dark brown
Shelf life in closed original packaging		24 months
Solid content <i>(m/m at 130 °C)</i>	EN ISO 3251	White (62÷68)%
		Grey (62÷68)%
		Red (62÷68)%
		Green (60÷66)%
		Black (62÷68)%
		Off-White (62÷68)%
		Dark brown (60÷66)%
Brookfield viscosity <i>(at 20 °C, spindle 5; 10 rpm)</i>	EN ISO 3219	(24,000±4,000)cP
Density <i>(at 20 °C)</i>	EN ISO 2811-1	White (1.41÷1.49)kg/L
		Grey (1.41÷1.49)kg/L
		Red (1.45÷1.55)kg/L
		Green (1.34÷1.42)kg/L
		Black (1.30÷1.38)kg/L
		Off-White (1.41÷1.49)kg/L
		Dark brown (1.38÷1.46)kg/L
Dust-free time		4 hours ¹
Complete drying time		48 hours ¹

PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²



PERFORMANCE PROPERTIES - EN 14891 - LIQUID APPLIED WATER IMPERMEABLE PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES		
PERFORMANCE PROPERTIES	EN 14891 REQUIREMENTS	PRODUCT PERFORMANCE
Initial Tensile Adhesion Strength	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after water contact	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after heat ageing	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after freeze-thaw cycle	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after contact with chlorinated water	> 0.5 N/mm ²	> 0.5 N/mm ²
Water impermeability	No penetration	Impermeable
Crack Bridging Ability (at -5 °C)	> 0.75 mm	> 0.75 mm
CLASSIFICATION ACCORDING TO UNI EN 14891	CLASS DM 01	Impermeable product applied in liquid dispersion with improved crack bridging ability at low temperatures (-5 °C)

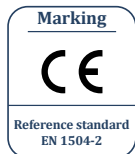
¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.

GUMVERN GM

Decorative and protective pigmented elastomeric liquid sheath

Technical data:

APPROVAL OF ENCAPSULANTS FOR REMEDIATION OF ASBESTOS CONCRETE STRUCTURES (MINISTERIAL DECREE 20/08/1999 according to UNI 10686/98)	
TYPE OF ENCAPSULATING COATINGS	PRODUCT APPLICATION PROCEDURE
(A) IN FULL VIEW FROM THE OUTSIDE <i>-water-based cycle-</i>	<ul style="list-style-type: none"> After cleaning the surfaces, apply a coat of red Fiber-Fix with variable consumption between 200 and 300 g/m². Once dried, after about 60 minutes apply 400 to 500 g/m² for the first layer of Gumvern GM. After complete drying, apply the second coat of Gumvern GM, with a colour that contrasts with the previous coat, with a consumption of 400 - 500 g/m².
(B) IN FULL VIEW FROM THE INSIDE (C) CONCEALED <i>-in support of confinement works-</i>	<ul style="list-style-type: none"> after cleaning the surfaces, apply a coat of Gumvern GM diluted with water in a ratio of 1:1 in a quantity between 200 and 300 g/m². Once dried, after about 4 hours apply 400 to 500 g/m² for the first layer of Gumvern GM. After complete drying, apply the second coat of Gumvern, with a colour that contrasts with the previous coat, with a consumption of 400-500 g/m².
(D) AUXILIARY <i>-temporary encapsulation for removal-</i>	<ul style="list-style-type: none"> after cleaning the surfaces, apply a coat of Gumvern GM diluted 35% with water in a quantity of about 250 g/m².



GUMVERN W

Viscous decorative and protective pigmented elastomeric liquid sheath

Description: Coloured waterproofing liquid membrane formulated based on selected synthetic resins in water dispersion and special additives.

- Advantages:**
- Reduces concrete carbonation phenomena.
 - Long-lasting waterproofing resistant to weathering and UV rays.
 - Cold laying, without fire risk and directly on the old bituminous sheaths without having to remove them.
 - Perfect adherence, suitable for complex construction details and resistant to micro-cracking.
 - Low maintenance, does not require additional protection.
 - Resistant to standing water (not permanent) on the surface even in the absence of a slope.
 - Also suitable for surfaces in industrial areas or near the sea.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** To cover and waterproof:
- Flat roofs, balconies, terraces, bathrooms, showers, saunas, old bituminous surfaces, tiles, sheet metal roofs and retaining walls.
 - Concrete balconies, before gluing the stoneware or clinker tiles where the solution with polymer-bitumen membranes is not feasible.
 - Fibre-cement, wood, and metallic surfaces.
 - Waterproof and elastic finishing coat for micro-cracked plaster.
 - Encapsulating coating for the remediation of asbestos cement products.
 - Diluted 50%, it can be used as an anti-dust primer.
 - Create a waterproofing and bonding base for the subsequent bonding of tiles with the appropriate cement-based adhesives (category C according to EN 12004).

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Surfaces with irregularities, plaster and castings that are too rough, holes, gravel patches, cracks, etc. need to be repaired and/or smoothed.
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - On non-visible lightened or waterproofed screeds (under screed, underfloor, etc.) check the internal humidity and whether or not it is necessary to lay vapour vents.
 - The waterproofing must be protected from rain, dew, and fog until completely dry. Humidity and low temperatures lengthen drying time.

- Application:**
- Apply Gumvern W by brush, broom, roller or spray.
 - Mix well before use.
 - As a first coat, apply Gumvern W diluted up to 25% with water.
 - The second coat has to be applied as is or with a lower dilution on the film of the dry first coat.
 - Gumvern W can be reinforced between one coat and the other with fibreglass or polyester non-woven fabric, thus enhancing the mechanical properties of the new waterproofing.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: The application must include at least two/three layers. The overall average consumption is 1.5-2.0 kg/m² and can vary according to the nature and degree of porosity of the surface and the desired thickness. In the case of reinforcement, the increase in consumption depends on its nature and thickness.

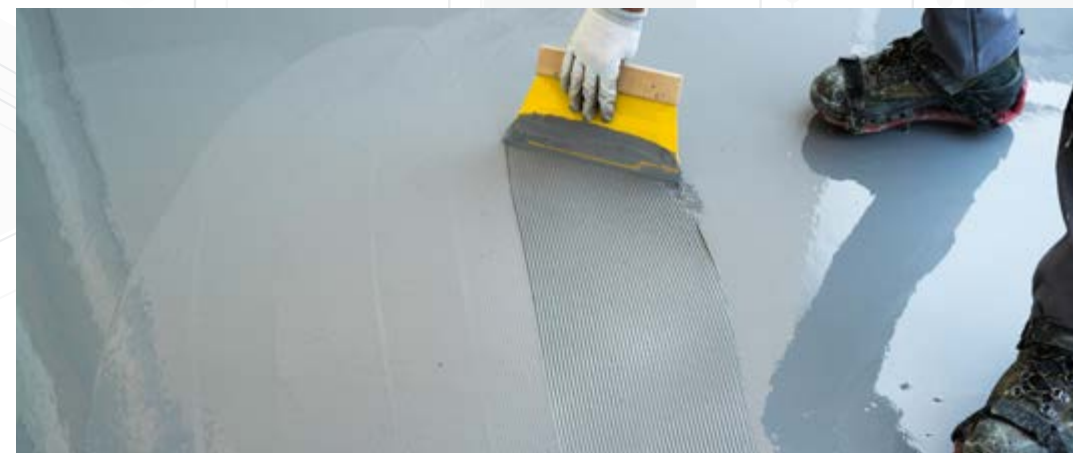
- Warnings:**
- Apply the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - We recommend applying the product on old polymer-bitumen membranes after applying a base coat of Primersint G2 Natural.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - We recommend applying the product on surfaces not subject to standing water.
 - If the roof includes insulating packages, a shorter restore is advisable.
 - It can be stepped on in case of occasional maintenance.
 - When applying on polymer-bitumen membranes or bituminous surfaces, check in advance the adhesion of Gumvern W before applying.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal or plastic pails; 200 kg metal drums.

Available colours:



NB: other colours are available on request for minimum production quantities.



GUMVERN W

Viscous decorative and protective pigmented elastomeric liquid sheath

Technical data:

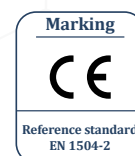
MAIN CHARACTERISTICS		
Appearance		Fluid thixotropic paste
Colours		White, Grey, Red, Green, Black
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(62±68)%
Brookfield viscosity (at 20 °C, spindle 6; 10 rpm)	EN ISO 3219	(60,000±12,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.40±1.50)kg/L
Dust-free time		4 hours ¹
Complete drying time		24 hours ¹
Operating temperature		-20°C ÷ +90°C
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.

PERFORMANCE PROPERTIES - EN 14891 - LIQUID APPLIED WATER IMPERMEABLE PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES -		
PERFORMANCE PROPERTIES	EN 14891 REQUIREMENTS	PRODUCT PERFORMANCE
Initial Tensile Adhesion Strength	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after water contact	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after heat ageing	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after freeze-thaw cycle	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after contact with chlorinated water	> 0.5 N/mm ²	> 0.5 N/mm ²
Water impermeability	No penetration	Impermeable
Crack Bridging Ability (at -5 °C)	> 0.75 mm	> 0.75 mm
CLASSIFICATION ACCORDING TO UNI EN 14891	CLASS DM O1	Impermeable product applied in liquid dispersion with improved crack bridging ability at low temperatures (-5 °C)

APPROVAL OF ENCAPSULANTS FOR REMEDIATION OF ASBESTOS CONCRETE STRUCTURES (MINISTERIAL DECREE 20/08/1999 according to UNI 10686/98)

TYPE OF ENCAPSULATING COATINGS	PRODUCT APPLICATION PROCEDURE
(A) IN FULL VIEW FROM THE OUTSIDE <i>--water-based cycle--</i>	<ul style="list-style-type: none"> After cleaning the surfaces, apply a coat of red Fiber-Fix with variable consumption between 200 and 300 g/m². Once dried, after about 60 minutes apply 400 to 500 g/m² for the first layer of Gumvern W. After complete drying, apply the second coat of Gumvern, W, with a colour that contrasts with the previous coat, with a consumption of 400-500 g/m².
(A) IN FULL VIEW FROM THE OUTSIDE <i>-solvent/water-based mixed cycle-</i>	<ul style="list-style-type: none"> After cleaning the surfaces, apply a coat of Primersint B4 or Fixo Primer with consumption varying between 200 and 300 g/m². Once dried, after about 4 hours apply 400 to 500 g/m² for the first layer of Gumvern W. After complete drying, apply the second coat of Gumvern W, with a colour that contrasts with the previous coat, with a consumption of 400-500 g/m².
(B) IN FULL VIEW FROM THE INSIDE (C) CONCEALED <i>-in support of confinement works-</i>	<ul style="list-style-type: none"> after cleaning the surfaces, apply a coat of Gumvern W diluted with water in a ratio of 1:1 in a quantity varying between 200 and 300 g/m². Once dried, after about 4 hours apply 400 to 500 g/m² for the first layer of Gumvern W. After complete drying, apply the second coat of Gumvern W, with a colour that contrasts with the previous coat, with a consumption of 400-500 g/m².
(D) AUXILIARY <i>-temporary encapsulation for removal-</i>	<ul style="list-style-type: none"> after cleaning the surfaces, apply a coat of Gumvern W diluted 35% with water in a quantity of about 250 g/m².



GUMVERN W FR

Decorative and protective fibre-reinforced pigmented elastomeric liquid sheath

Description: Coloured fibre-reinforced walkable waterproofing liquid membrane, formulated with selected synthetic resins in water dispersion and special additives.

- Advantages:**
- Reduces concrete carbonation phenomena.
 - Long-lasting waterproofing resistant to weathering and UV rays.
 - Cold laying, directly on the old bituminous membranes without the need to remove them (eliminates the risk of fire during installation).
 - Perfect adherence, suitable for complex construction details and resistant to micro-cracking.
 - It can be used both horizontally and vertically and adapts to any geometry of the surface to be covered.
 - Low maintenance, does not require additional protection.
 - Resistant to standing water (not permanent) on the surface even in the absence of a slope.
 - Walkable.
 - Also suitable for surfaces in industrial areas or near the sea.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.
 - Thanks to its high Solar Reflectance Index (SRI) value, the Gumvern W FR white version ensures excellent thermal insulation by creating a highly reflective barrier against UV rays, reducing the external surface temperature, improving thermal well-being inside living spaces and reducing energy consumption for summer air conditioning.

- Applications:**
- Waterproof and coat new surfaces in concrete, membranes with mineral finish, fibre-cement, wood, metal and ceramic such as roofs and coverings, balconies, terraces, bathrooms, showers, saunas, fireplaces, cornices, retaining walls and foundations.
 - Restore old waterproofing of existing bituminous surfaces, tiled terraces and balconies, as well as surfaces such as those indicated above.
 - Coat concrete tanks for containing non-drinking water and other non-acidic and/or aggressive liquids.
 - Create a waterproofing and bonding base for the subsequent bonding of tiles with the appropriate cement-based adhesives (category C according to EN 12004).
 - Smoothing for micro-cracked plaster.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Surfaces with irregularities, plaster and castings that are too rough, holes, gravel patches, cracks, etc. need to be repaired and/or smoothed.
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - On non-visible lightened or waterproofed screeds (under screed, underfloor, etc.) check the internal humidity and whether or not it is necessary to lay vapour vents.
 - The waterproofing must be protected from rain, dew, and fog until completely dry. Humidity and low temperatures lengthen drying time.

- Application:**
- Apply Gumvern W FR with a smooth trowel or with rollers (sponge or with very short bristles) using a brush in the corners.
 - The second coat must be applied perpendicular to the first.
 - For very crumbly and dusty surfaces, the application of Gumvern W diluted with 50% water is recommended as a base coat.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: The application must include at least two/three layers. The overall average consumption is 1.5-2.0 kg/m² and can vary according to the nature and degree of porosity of the surface and the desired thickness.

- Warnings:**
- The product is ready to use, do not dilute and do not use mechanical mixers; if necessary, mix manually.
 - Apply the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - Avoid using in the presence of damp backpressure phenomena. When applying on new cement substrates, wait for its curing.
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - We recommend applying the product on old polymer-bitumen membranes after applying a base coat of Primersint G2 Natural.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - We recommend applying the product on surfaces not subject to standing water.
 - If the roof includes insulating packages, a shorter restore is advisable.
 - When applying on polymer-bitumen membranes or bituminous surfaces, check in advance the adhesion of Gumvern W FR before applying.
 - Walkable, but not for continuous traffic.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:**
- 1, 5, 10, 20 and 25 kg metal or plastic pails.
 - 200 kg metal drums.

Available colours:



NB: other colours are available on request for minimum production quantities.

GUMVERN W FR

Decorative and protective fibre-reinforced pigmented elastomeric liquid sheath

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colours		White, Grey, Red, Green
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	White (64÷71)%
		Grey (68÷72)%
		Red (66÷72)%
		Green (66÷70)%
Brookfield viscosity (at 20 °C, spindle 6; 10 rpm)	EN ISO 3219	(50,000±10,000)cP
Density (at 20 °C)	EN ISO 2811-1	White (1.30÷1.40)kg/L
		Grey (1.40÷1.50)kg/L
		Red (1.30÷1.40)kg/L
		Green (1.40÷1.50)kg/L
Dust-free time		4 hours ¹
Complete drying time		At least 24 hours ¹
Operating temperature		-20°C ÷ +90°C
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PR-PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²
Abrasion resistance (Taber test)	EN ISO 5470-1	< 3 g
Impact resistance	EN ISO 6272-1	class III (≥20 Nm)

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



RESISTANCE TO STATIC INDENTATION EOTA TR 007		
LOAD	LOAD CATEGORY	RESULT
250 N	P4	Product water resistance: LEVEL L4 (WITH LOAD CATEGORY P4))
RESISTANCE TO DYNAMIC INDENTATION EOTA TR 006		
TYPE OF PUNCH	PUNCH DIAMETER	RESULT
L2	20 mm	Product water resistance: LEVEL L2

PERFORMANCE PROPERTIES - EN 14891 - LIQUID APPLIED WATER IMPERMEABLE PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES		
PERFORMANCE PROPERTIES	EN 14891 REQUIREMENTS	PRODUCT PERFORMANCE
Initial Tensile Adhesion Strength	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after water contact	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after heat ageing	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after freeze-thaw cycle	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after contact with chlorinated water	> 0.5 N/mm ²	> 0.5 N/mm ²
Water impermeability	No penetration	Impermeable
Crack Bridging Ability (at -5 °C)	> 0.75 mm	> 0.75 mm
CLASSIFICATION ACCORDING TO UNI EN 14891	CLASS DM 01	Impermeable product applied in liquid dispersion with improved crack bridging ability at low temperatures (-5 °C)



GUMVERN W FR

Decorative and protective fibre-reinforced pigmented elastomeric liquid sheath

Specifications for COOL ROOFS: Thanks to its high SRI value, Gumvern W FR Bianco allows obtaining LEED credits for the reduction of the heat island effect and ensures an increase in the energy efficiency of the photovoltaic panels.

Technical data:

SOLAR REFLECTANCE, THERMAL EMITTANCE, SOLAR REFLECTANCE INDEX			
Solar Reflectance Index (SRI) ASTM E1980-11	Thermal emittance (E) ASTM C1371-15	Solar reflectance (R) ASTM E903-12	Surface temperature (T _s)
100	84	81	44.6 °C



LEED CERTIFICATION REQUIREMENTS v 4.1 BD+C										
SS HEAT ISLAND EFFECT CREDIT: ROOFS	Use roofing materials that have a Solar Reflectance Index (SRI) greater than or equal to the value shown in the table below for a minimum of 75% of the roof area.									
	<table border="1"> <thead> <tr> <th>Type of roof</th> <th>Gradient</th> <th>SRI</th> </tr> </thead> <tbody> <tr> <td>Low slope roofs</td> <td>≤15%</td> <td>82</td> </tr> <tr> <td>Highly sloping roofs</td> <td>>15%</td> <td>39</td> </tr> </tbody> </table>	Type of roof	Gradient	SRI	Low slope roofs	≤15%	82	Highly sloping roofs	>15%	39
	Type of roof	Gradient	SRI							
Low slope roofs	≤15%	82								
Highly sloping roofs	>15%	39								
Membranes painted with Gumvern W FR Bianco have an SRI > 82.										



LIQUID



SHEATHS

LOOK for RIGHT PRODUCTS,
NOT for RIGHT CUSTOMERS

GUMVERN WHITE FIBERS

High SRI white elastomeric liquid sheath

Description: White fibre-reinforced liquid waterproofing membrane, formulated with selected synthetic resins in aqueous dispersion and special additives which give high solar reflectance properties.

- Advantages:**
- Ensures excellent thermal insulation by creating a highly reflecting barrier against UV rays, reducing both the temperature on the external surface and improving thermal well-being inside living spaces.
 - Reduces the energy consumption of air conditioning in summer.
 - Improves the yield of electricity generation plants made with photovoltaic panels, thanks to its solar reflectance and thermal emissivity values.
 - Reduces concrete carbonation phenomena.
 - Long-lasting waterproofing resistant to weathering.
 - Resistant to standing water.
 - Cold laying, directly on the old bituminous membranes without the need to remove them (eliminates the risk of fire during installation).
 - Perfect adherence, suitable for complex construction details and resistant to micro-cracking.
 - Good resistance to foot traffic and mechanical stress.
 - Low maintenance, does not require additional protection.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** To cover and waterproof:
- Flat roofs, balconies, terraces, bathrooms, showers, saunas, bituminous surfaces, tiles, sheet metal roofs and retaining walls.
 - Concrete tanks for containing non-drinking water and other non-acidic and/or particularly aggressive liquids.
 - Concrete balconies, before gluing the stoneware or clinker tiles where the solution with polymer-bitumen membranes is not feasible.
 - Fibre-cement, wood, polycarbonate, and metallic surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. The solidity and efficiency of the water run-off points must be checked before application.
 - The waterproofing must be protected from rain, dew, and fog until completely dry. Humidity and low temperatures lengthen drying time.

- Application:**
- Apply Gumvern White Fibers by brush, broom, roller or spray.
 - Mix well before use.
 - As a first coat, apply Gumvern White Fibers diluted up to 10% with water.
 - The second coat, applied crosswise to the first, has to be applied as is or with a lower dilution on the film of the dry first coat.
 - It is possible to interpose non-woven fabric between the two coats to increase its performance and resistance to mechanical traction.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: The application must include at least two coats to give a uniform colour to the waterproofing layer, using a total of 1.4-2.0 kg/m² of Gumvern White Fibers depending on the nature and

Consumption: degree of porosity of the surface and the desired thickness. Product consumption increases if non-woven fabric is used between the two coats depending on the nature of the latter.

- Warnings:**
- The product is ready for use, do not use mechanical mixers; if necessary, mix manually.
 - Apply the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - Avoid using in the presence of damp backpressure phenomena. When applying on new cement substrates, wait for its curing.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Apply the product on surfaces not subject to standing water.
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - If the roof includes insulating packages, a shorter restore is advisable.
 - When applying on polymer-bitumen membranes or bituminous surfaces, check in advance the adhesion of Gumvern White Fibers before applying.
 - It can be stepped on in case of occasional maintenance.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 1, 5, 10, 20 or 25 kg metal or plastic pails; 200 kg metal drums.

Other versions: Gumvern White Fibers Fire Resistant² is available; it is a version of the product with the addition of particular additives, which give self-extinguishing properties. Gumvern White Fibers Fire Resistant is certified resistant to external fire, in class B_{Roof}(t2) according to UNI EN 13501-5:2016 (specifications present in the product technical sheet).

Technical data:

MAIN CHARACTERISTICS		
Appearance		Fluid thixotropic paste
Colour		White
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(63÷71)%
Brookfield viscosity (at 20 °C, spindle 5; 10 rpm)	EN ISO 3219	(24,000±5,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.45÷1.55)kg/L
Dust-free time		4 hours ¹
Complete drying time		24 hours ¹
Operating temperature		-20°C ÷ +90°C

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.

GUMVERN WHITE FIBERS

High SRI white elastomeric liquid sheath

Specifications for COOL ROOFS: Thanks to its high SRI value, Gumvern White Fibers allows obtaining LEED credits for the reduction of the heat island effect and ensures an increase in the energy efficiency of the photovoltaic panels.

PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)

Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

SOLAR REFLECTANCE, THERMAL EMITTANCE, SOLAR REFLECTANCE INDEX



Solar Reflectance Index (SRI) ASTM E1980-11	Thermal emittance (E) ASTM C1371-15	Solar reflectance (R) ASTM E903-12	Surface temperature (T _g)
108	91	85	41.7 °C

LEED CERTIFICATION REQUIREMENTS v 4.1 BD+C



SS HEAT ISLAND EFFECT
CREDIT: ROOFS

Use roofing materials that have a Solar Reflectance Index (SRI) greater than or equal to the value shown in the table below for a minimum of 75% of the roof area.

Type of roof	Gradient	SRI
Low slope roofs	≤15%	82
Highly sloping roofs	>15%	39

Membranes painted with Gumvern White Fibers have an SRI > 82.



GROW WITH US
IN A **GREEN WAY**



GUMVERN WHITE FIBERS FIRE RESISTANT

High reflectance, fire resistant white liquid sheath

Description: White fibre-reinforced liquid waterproofing membrane, formulated with selected synthetic resins in aqueous dispersion and special additives which give high solar reflectance properties. The formulation of the product features particular additives, which confer self-extinguishing properties.

- Advantages:**
- Reduces the fire risk of the coating in the event that burning embers fall on the roof.
 - Ensures excellent thermal insulation by creating a highly reflecting barrier against UV rays, reducing both the temperature on the external surface and improving thermal well-being inside living spaces.
 - Reduces the energy consumption of air conditioning in summer.
 - Improves the yield of electricity generation plants made with photovoltaic panels, thanks to its high solar reflectance and thermal emissivity values.
 - Reduces concrete carbonation phenomena.
 - Long-lasting waterproofing resistant to weathering.
 - Resistant to standing water.
 - Cold laying, directly on the old bituminous membranes without the need to remove them (eliminates the risk of fire during installation).
 - Perfect adherence, suitable for complex construction details and resistant to micro-cracking.
 - Good resistance to foot traffic and mechanical stress.
 - Low maintenance, does not require additional protection.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- To cover and waterproof:
- Flat roofs, balconies, terraces, bathrooms, showers, saunas, bituminous surfaces, tiles, sheet metal roofs and retaining walls.
 - Concrete tanks for containing non-drinking water and other non-acidic and/or particularly aggressive liquids.
 - Concrete balconies, before gluing the stoneware or clinker tiles where the solution with polymer-bitumen membranes is not feasible.
 - Fibre-cement, wood, polycarbonate, and metallic surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry. The solidity and efficiency of the water run-off points must be checked before application.
 - The waterproofing must be protected from rain, dew, and fog until completely dry. Humidity and low temperatures lengthen drying time.

- Application:**
- Apply by brush, broom, roller or spray.
 - Mix well before use.
 - As a first coat, apply Gumvern White Fibers Fire Resistant diluted up to 10% with water.
 - The second coat, applied crosswise to the first, has to be applied as is on the film of the dry first coat.
 - It is possible to interpose non-woven fabric between the two coats to increase its performance and resistance to mechanical traction.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Application must include at least two coats* to give uniform colour to the waterproofing layer, using a total of 1.6 - 2.0 kg/m² of Gumvern White Fibers Fire Resistant depending on the nature and degree of porosity of the surface and the thickness to be obtained (*depending on the type of support, to reach the expected consumption quantities, it may be necessary to apply additional coats of the product, paying attention in any case not to exceed the quantity used for each application). Product consumption increases in the case of adding non-woven reinforcement in polyester reinforced with glass fibres (such as Gum Tex 70 PLUS) of 70g/m² between the two coats. In this condition, total consumption of the product, also depending on the surface on which it is applied, can vary overall between 1.8 and 2.4 kg/m².

- Warnings:**
- The product is ready for use, do not use mechanical mixers; if necessary, mix manually.
 - Apply the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying of the film.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Avoid using in the presence of damp backpressure phenomena. When applying on new cement substrates, wait for its curing.
 - We recommend applying the product on surfaces not subject to standing water.
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - If the roof includes insulating packages, a shorter restore is advisable.
 - When applying on polymer-bitumen membranes or bituminous surfaces, check in advance the adhesion of Gumvern White Fibers Fire Resistant before applying.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:**
- 1, 5, 10, 20 and 25 kg metal or plastic pails.
 - 200 kg metal drums.

Today.
tomorrow.
to be continued

GUMVERN WHITE FIBERS FIRE RESISTANT

High reflectance, fire resistant white liquid sheath

Technical data:

MAIN CHARACTERISTICS		
Appearance		Fluid thixotropic paste
Colour		White
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(63÷71)%
Brookfield viscosity (at 20 °C, spindle 5; 10 rpm)	EN ISO 3219	(32,000±6,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.36÷1.44)kg/L
Dust-free time		4 hours ¹
Complete drying time		At least 24 hours ¹
Operating temperature		-20°C ÷ +90°C

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.

PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

SOLAR REFLECTANCE, THERMAL EMITTANCE, SOLAR REFLECTANCE INDEX			
Solar Reflectance Index (SRI) [%] ASTM E1980-11	Thermal emittance (IE) EN 15976	Solar reflectance (SR) ASTM C1549-09	Surface temperature (T _s) ASTM E1980-11
95.0	0.874	0.768	46.5 °C



LEED CERTIFICATION REQUIREMENTS v 4.1 BD+C



SS HEAT ISLAND EFFECT CREDIT: ROOFS

Use roofing materials that have a Solar Reflectance Index (SRI) greater than or equal to the value shown in the table below for a minimum of 75% of the roof area.

Type of roof	Gradient	SRI
Low slope roofs	≤15%	82
Highly sloping roofs	>15%	39

Membranes painted with Gumvern White Fibers Resistant have an SRI > 82.

FIRE RESISTANCE CLASSIFICATION EN 13501-5:2016

Classification Report no. N2416/21
T2i Trasferimento tecnologico e innovazione s.c.a.r.l. (LAB no. 0170L)

Classification method	EN 13501-5:2016 Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests
Test method	CEN/TS 1187:2012 -Test 2 Test methods for roofs/roof coverings exposed to external fire
Classification	The Gumvern White Fibers Fire Resistant roof covering in relation to its external fire attack characteristics is classified: B_{ROOF}(t2) Validity of the classification for the following fields of application: -Roof covering – Gradient: all gradients. -On all combustible and non-combustible substrates with density not less than 20 kg/m ³ .



ELASTIDEN C

Elastomeric bituminous liquid sheath

Description: Liquid waterproofing membrane formulated with bitumen, elastomeric resins, and selected solvents.

- Advantages:**
- Waterproofs concrete surfaces affected by micro-cracks or subjected to thermal expansion.
 - Once dried, it forms a waterproof, elastic, and tough film.
 - Adapts to any surface geometry to be coated.
 - Quicker drying compared to the bituminous emulsions.
 - Excellent resistance to standing water on the surface even in the absence of a slope.
 - Frost resistant.
 - Resistant to low temperatures: can also be used in winter.
 - Excellent resistance on surfaces in industrial areas or near the sea.

- Applications:** Suitable for coating and waterproofing:
- Old bituminous membranes.
 - Flat, non-walkable roofing on concrete surfaces.
 - Underground and foundation walls.
 - Concrete structures for liquid containment.
 - Sheet metal roofing.
 - Roof details.
 - Fibre-cement, wood, polycarbonate, and metallic surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - Apply at temperatures between -10 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Mix the product before use.
 - Apply by brush, broom, roller or airless spray (the product can be diluted with nitro thinners or common solvent-based bitumen primers).
 - Use common synthetic thinners to clean tools.
 - On surfaces larger than 10 m² or mechanically stressed supports, we recommend reinforcing Elastiden C with suitable non-woven polyester fabric, embedded in the first still fresh coat. For this specific application in combination with non-woven fabric, always use the diluted product (in both layers of application) up to 2%, with common solvent-based bituminous primers or thinners available in the market.

- Consumption:**
- We recommend applying at least 2 coats of product (preferably 3 coats), the next one when the previous one is perfectly dry. Total product consumption is approximately 0.8-1 kg/m².
 - Product consumption depends on the support and the desired thickness; on average, to obtain a dried film of 1 mm, the amount of product used will be about 1.4 kg/m².

- Warnings:**
- Do not use indoors or in non-ventilated premises.
 - We recommend not to exceed the above-mentioned consumption, as this could lead to an imperfect drying of the film in depth, due to the persistence, under the surface layer, of fractions of unevaporated solvent. The total waterproofness of the film dried on the surface prevents their normal evaporation.
 - If the applied product remains visible, the dried film should be protected with reflective paints or coloured decorative paints. We recommend painting only a few months after its application.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is $\leq 5\%$ by weight (for screeds with a density of 2000 kg/m³).
 - When waterproofing containment tanks for liquids, we recommend applying the product in combination with suitable non-woven fabric reinforcement.
 - Apply the product on the side of the structure exposed to water (water stress under positive pressure).
 - Do not use to coat surfaces in contact with drinking water or edible liquids.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - It can be stepped on in case of occasional maintenance.
 - Do not use on surfaces subject to rising damp or strong water pressure.
 - Flammable product. Store in tightly sealed original packaging.
 - Do not expose to temperatures over 30 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 5, 10, 18 and 20 kg metal pails.
 - 200 kg metal drums.

- Other versions:**
- Elastiden C Antiradice is available; it is a version of the product with the addition of special additives that make it ideal for waterproofing surfaces in contact with plants, flowers, and vegetation in general.
 - Elastiden C Fiber is also available; it is a fibre-reinforced version of the product, with improved mechanical properties.



ELASTIDEN C

Elastomeric bituminous liquid sheath

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23°C
Solid content (m/m at 130 °C)	EN ISO 3251	(61÷67)%
Brookfield viscosity (at 25 °C, spindle 3; 10 rpm)	EN ISO 3219	(3,700±700) cP
Density (at 20 °C)	EN ISO 2811-1	(1.00÷1.06) kg/L
Tack-free time		90 ÷ 120 minutes ¹
Drying time for recoating		24÷48 hours ¹
Flexibility at low temperatures	EN 15813	-15°C
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



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ELASTIDEN PLUS

Viscous elastomeric bituminous liquid sheath

Description: Liquid waterproofing membrane formulated with bitumen, elastomeric resins, and selected solvents.

- Advantages:**
- Waterproofs concrete surfaces affected by micro-cracks or subjected to thermal expansion.
 - Once dried, it forms a waterproof, elastic, and tough film.
 - Easy spreading on the laying surface both vertically and horizontally.
 - Adapts to any surface geometry to be coated.
 - Quicker drying compared to the bituminous emulsions.
 - Excellent resistance to standing water on the surface even in the absence of a slope.
 - Frost resistant.
 - Resistant to low temperatures: can also be used in winter.
 - Excellent resistance on surfaces in industrial areas or near the sea.

- Applications:** Suitable for coating and waterproofing:
- Old bituminous membranes
 - Flat, non-walkable roofing on concrete surfaces
 - Underground and foundation walls
 - Concrete structures for liquid containment.
 - Sheet metal roofing
 - Roof details.
 - Fibre-cement, wood, polycarbonate, and metallic surfaces.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Do not apply to wet or damp surfaces.
 - Before applying, check that waterproofing ensures proper run-off of rainwater.
 - Apply at temperatures between -10 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Mix the product before use.
 - Apply by airless spray (the product can be diluted with nitro thinners or common solvent-based bitumen primers), brush, broom or roller.
 - On surfaces larger than 10 m² or mechanically stressed supports, we recommend reinforcing Elastiden Plus with suitable non-woven polyester fabric, embedded in the first still fresh coat. For this specific application in combination with non-woven fabric, always use the diluted product (in both layers of application) up to 3%, with common solvent-based bituminous primers or thinners available in the market.
 - Use common synthetic thinners to clean tools.

- Consumption:**
- We recommend applying at least 2 coats, the next one when the previous one is perfectly dry.
 - The consumption of the product depends on the surface and the desired thickness but usually varies between 1.2 and 1.4 kg/m² overall. On average, to obtain a 1 mm dry film, the quantity of product used will be approximately 1.4 kg/m².

- Warnings:**
- Do not use indoors or in non-ventilated premises.
 - We recommend not to exceed the above-mentioned consumption, as this could lead to an imperfect drying of the film in depth, due to the persistence, under the surface layer, of fractions of unevaporated solvent (this effect is due to the total waterproofness of the film dried on the surface, which prevents normal evaporation of the solvent).
 - If the applied product remains visible, the dried film should be protected with reflective paints or coloured decorative paints. We recommend painting only a few months after its application.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - When waterproofing containment tanks for liquids, we recommend applying the product in combination with suitable non-woven fabric reinforcement.
 - Apply the product on the side of the structure exposed to water (water stress under positive pressure).
 - Do not use to coat surfaces in contact with drinking water or edible liquids.
 - Do not use on surfaces subject to rising damp or strong water pressure.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - It can be stepped on in case of occasional maintenance.
 - Flammable product. Store in tightly sealed original packaging.
 - Do not expose to temperatures over 30 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 5, 10, and 20 kg metal pails.
 - 200 kg metal drums.

Other versions: Elastiden Plus Antiradice is available; it is a version of the product with the addition of special additives that make it ideal for waterproofing surfaces in contact with plants, flowers, and vegetation in general.



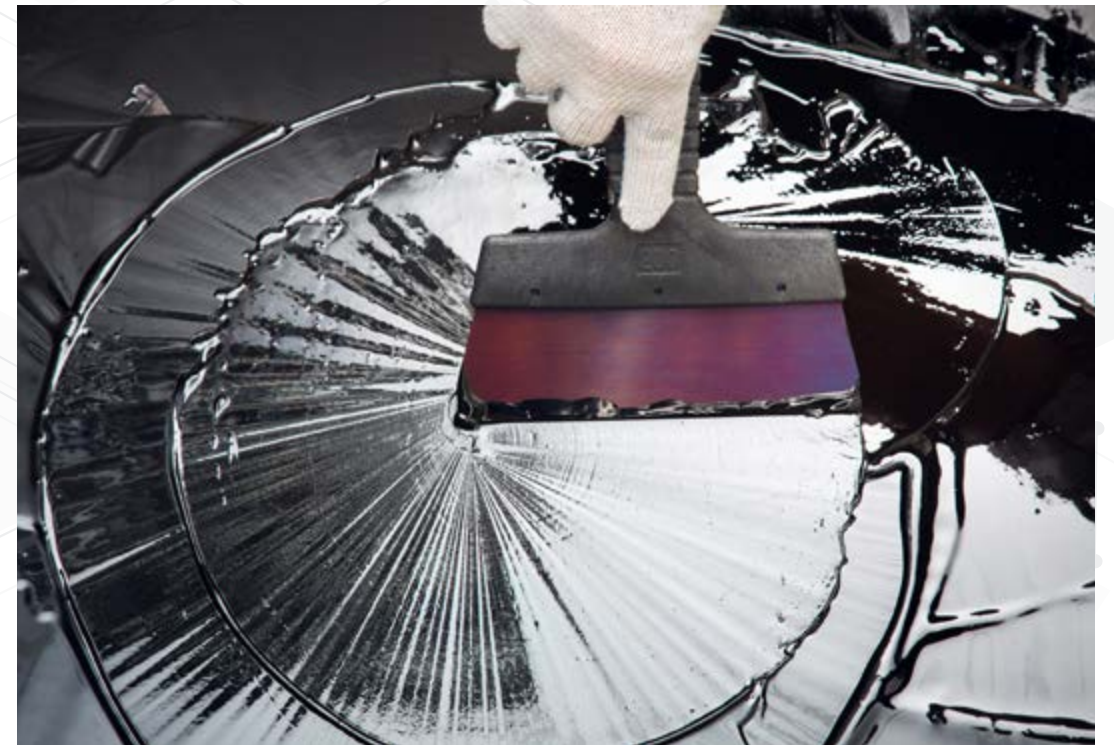
ELASTIDEN PLUS

Viscous elastomeric bituminous liquid sheath

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23°C
Solid content (m/m at 130 °C)	EN ISO 3251	(64÷72)%
Brookfield viscosity (at 25 °C, spindle 3; 10 rpm)	EN ISO 3219	(16,500±3,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.00÷1.06)kg/L
Tack-free time		90 ÷ 120 minutes ¹
Drying time for recoating		24÷48 hours ¹
Flexibility at low temperatures	EN 15813	-15°C
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbcency of surfaces.



ELASTIDEN PUR

Polyurethane-bitumen liquid sheath

Description: Solvent-based single-component polyurethane-bitumen thixotropic liquid waterproofing membrane characterised by a high degree of elasticity and adhesion.

- Advantages:**
- Ready for use and very fast drying.
 - Once dried, it forms a waterproof, elastic, and tough film.
 - Adapts to any surface geometry to be coated (both vertically and horizontally).
 - Easy to apply even on complex profiles.
 - Hardens with atmospheric humidity.
 - Excellent resistance on surfaces in industrial areas or near the sea.
 - Strong mechanical and adhesion properties.
 - Excellent resistance to chemicals.

Applications:

- Suitable for coating and waterproofing: terraces and balconies, flat roofing on concrete surfaces of variable geometries, underground and foundation walls, bridges and viaducts, old polymer-bitumen membranes and synthetic sheets (PVC, TPO, EPDM), wood, sheet metal and fibre cement roofs, roof and undertile details.

Surface preparation:

- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
- Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
- Apply at temperatures between -5 °C and +40 °C; avoid extremely hot or cold conditions during application and drying of the film.

Application:

- Apply by brush, roller or airless spray (the product can be diluted up to 10% with solvent-based polyurethane systems).
- Any excess quantity of product applied does not cause the appearance of bubbles during the cross-linking phase.
- As soon as it is applied, Elastiden PUR is immediately resistant to rain.
- Use thinners for polyurethane products to clean tools.
- For waterproofing new concrete surfaces, it is always advisable to use a dust-pro-bituminous primer (solvent-based or water-based); on large surfaces, reinforce the product by embedding a non-woven fabric reinforcement (such as polyester/polypropylene) in the first step while still fresh. The second coat can be applied after 12-24 hours, depending on ambient temperature and humidity.

Consumption: We recommend applying two coats. Apply the second coat only once the first is perfectly dry. Total product consumption is approximately 1.5-3.0 kg/m² depending on the porosity of the surface to be treated and the desired thickness.

Warnings:

- Do not use indoors or in non-ventilated premises.
- Do not apply the product in thick layers (we recommend a maximum of 1 mm per coat).
- If the applied product remains visible, the dried film should be protected with a coloured or aluminium coloured elastic coating.
- Once opened, the vacuum pack can be closed again taking care to let the air out of the polyethylene-aluminium bag; in this case, the product's shelf life will in any case be limited.

Warnings:

- It can be walked on occasionally in cases of occasional maintenance (the product can be considered walkable 24 hours after application at 20 °C and 60% relative humidity).
- Flammable product. Store in tightly sealed original packaging.
- Do not expose to temperatures over 30 °C, heat sources, open flames or other sources of ignition.
- Comply with the information on the safety data sheet.

Packaging: 5 and 20 kg metal pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colour		Black
Shelf life in closed original packaging		6 months
Closed-cup flash point	ASTM D3828-87	>+40°C
Solid content (m/m at 130 °C)	EN ISO 3251	(68÷72)%
Density (at 20 °C)	EN ISO 2811-1	(1.05±1.15)kg/L
Tack-free time		120 minutes ¹
Time to dry completely (per coat)		12÷48 hours ¹
Overpainting time		15 days ¹
Shore hardness A		35/40
Operating temperature		da -40°C a +100°C
Elongation at break		650%
Flexibility at low temperatures	EN 15813	-25°C
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class III (S _D > 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



ELASTOPLASTO 400

Decorative and protective fibre-reinforced pigmented elastoplastic liquid sheath

Description: Coloured fibre-reinforced liquid waterproofing membrane, formulated with synthetic resins and selected solvents.

- Advantages:**
- Ensures effective protection against UV rays and weathering.
 - Has a greater resistance to standing water than common water emulsion sheaths.
 - Ensures good thermal insulation by creating a highly reflective barrier of the sun's rays.
 - Extends the life of bituminous coats.
 - Perfect adhesion.
 - Fast drying of the film.
 - The presence of fibres increases the resistance to treading and mechanical stress.
 - Frost resistant.
 - Resistant to low temperatures: can also be used in winter.
 - Resistant to thermal shock.
 - High resistance on surfaces in industrial areas or near the sea.

- Applications:** Suitable to coat:
- Concrete and fibre cement.
 - Talc or slated polymer-bitumen membranes.
 - Bituminous liquid waterproofing membranes (water or solvent based) also affected by the occasional presence of standing water.
 - Wood and metal surfaces, plaster, pantiles and roof tiles.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - Before applying, check that waterproofing ensures proper run-off of rainwater.
 - Apply at temperatures between +0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- The product is ready to use.
 - Apply Elastoplasto 400, after mixing with a brush, broom or trowel.
 - Apply the product in 2 cross coats. The second coat should be applied when the first is perfectly dry.
 - Use common synthetic thinners to clean tools.

Consumption: Depending on the surface to be treated, total consumption varies from 1 to 2 kg/m².

Warnings:

- Do not use indoors or in non-ventilated premises.
- We recommend not to exceed the above-mentioned consumption, as this could lead to an imperfect drying of the film in depth, due to the persistence, under the surface layer, of fractions of unevaporated solvent. The total waterproofness of the film dried on the surface prevents their normal evaporation.
- Do not apply on very hot surfaces as the process of formation of the paint film would be excessively accelerated with negative consequences on the cohesion and adhesion of the product to the surface.
- Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is $\leq 5\%$ by weight (for screeds with a density of 2000 kg/m³).
- We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
- If the roof includes insulating packages, a shorter restore is advisable.
- Do not use for surfaces or containers of edible liquids, for drinking water or that may come into contact with solvents or mineral oils.
- Do not paint tanks, basements or channels subject to strong water backpressure or pressurised water.
- Periodic maintenance of the surfaces is recommended, with visual inspection and removal of dirt by pressure washing.
- Store in tightly sealed original packaging.
- Flammable product
- Do not expose to temperatures over 40 °C, heat sources, open flames or other sources of ignition.
- Comply with the information on the safety data sheet.

Packaging:

1, 5, 10, and 20 kg metal pails.

Available colours:



NB: other colours are available on request for minimum production quantities.

PASSION and **COMMITMENT**
 our **FORMULA**
 for **YOUR SUCCESS**

ELASTOPLASTO 400

Decorative and protective fibre-reinforced pigmented elastoplastic liquid sheath

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colours		White Red, Green, Grey
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23°C
Solid content (m/m at 130 °C)	EN ISO 3251	(73÷81)%
Brookfield viscosity (at 25 °C, spindle 5; 10 rpm)	EN ISO 3219	(17,000±4,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.43÷1.53)kg/L
Drying time		30 ÷ 60 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbcency of surfaces.



**QUALITY
COMES NEVER
by CHANCE**



CEMENTPLAST TEC

Fibre-reinforced bituminous waterproofing plastic cement

Description: Fibre-reinforced, solvent-based elastomeric bituminous waterproofing, formulated with bitumen, synthetic resins and special additives.

- Advantages:**
- Quicker drying compared to the bituminous emulsions.
 - No stickiness.
 - Good elasticity.
 - Good resistance to standing water.
 - Suitable also for winter.
 - Ready for use.

- Applications:**
- It is used in the building industry to join waterproof coverings to vertical fittings, drain outlets, skylights, aerators, etc.
 - It is indicated to repair and seal foundations, sheds or non-walkable slabs of flat, inclined or curved roofs affected by micro-cracks or cracks not subject to heavy expansion.
 - If diluted with solvent-based bituminous primers, it can be used with a brush for waterproofing concrete foundations.

Surface preparation: Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.

- Application:**
- The product is ready for use. Apply with a metal spatula.
 - Spray application is not recommended due to the presence of cellulose fibres in the product.
 - Use common synthetic thinners to clean tools.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

Consumption: The consumption of Cementplast Tec is approximately 1-1.5 kg/m².

- Warnings:**
- Paint finishing is allowed only a few months after application to allow the surfacing hydrocarbon substances to be expelled.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Do not use indoors or in non-ventilated premises.
 - Store in tightly sealed original packaging.
 - Flammable product.
 - Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Paste
Colour		Black
Shelf life in closed original packaging		24 months
Solid content (<i>m/m at 130 °C</i>)	EN ISO 3251	(78÷86)%
Brookfield viscosity (<i>at 25 °C, spindle 7; 10 rpm</i>)	EN ISO 3219	(1,600±300) cP
Density (<i>at 20 °C</i>)	EN ISO 2811-1	(1.56±0.04) kg/L
Drying time		90÷120 minutes ¹
Drying time (<i>in depth at 20° C</i>)		12 hours ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class II (5<S _D < 50 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



ELASTOCROM

Fibre-reinforced pigmented elastomeric waterproofing paste

Description: Multi-purpose coloured fibre-reinforced waterproofing coating, formulated with synthetic resins and selected solvents.

- Advantages:**
- Waterproofs concrete surfaces affected by micro-cracks or subjected to thermal expansion.
 - Perfect adhesion on materials of different nature (wood, metal, glass, concrete, PVC).
 - Adapts to any surface geometry to be coated.
 - Once dried, it has excellent elasticity.
 - Excellence resistance to standing water.
 - Resistant to low temperatures: can also be used in winter.
 - Protective against UV degradation.
 - High resistance on surfaces in industrial areas or near the sea.

- Applications:** Suitable for waterproofing:
- Old bituminous membranes.
 - Roofing on concrete surfaces, sheet metal or fibre-cement roofing.
 - Underground and foundation walls.
 - Pipes and gutters; roofing details.

- Also suitable for:
- Creating details and joints of synthetic surfaces (TPO/FTO).
 - Sealing between membranes and vertical concrete.
 - Instant sealing of construction gaps on roofs and coverings such as chimney pots, skylights, downspouts, flashings, ventilation ducts, antennas and gutters.
 - For collars around through pipes.
 - For rapid localised repairs.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Check that waterproofing ensures proper run-off of rainwater.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- The product is ready for use. Apply, after mixing, by brush, spatula or roller.
 - When applied in two layers, the product must be applied when the first is completely dry. The second coat must be applied perpendicular to the first.
 - It is possible to add nitro thinner to obtain a more fluid product.
 - Drying times depend on the type of support, the thickness of the layer produced and the ambient temperature.
 - Use common synthetic thinners to clean tools.

Consumption: Depending on the surface to be treated, total consumption varies from 1 to 2 kg/m².

- Warnings:**
- Do not use indoors or in non-ventilated premises.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).

- Warnings:**
- It can be stepped on in case of occasional maintenance.
 - It is advisable not to exceed the consumption indicated above, because the film may not dry perfectly in depth.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - Flammable product. Do not expose to temperatures over 40 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colour		Grey
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23°C
Solid content (m/m at 130 °C)	EN ISO 3251	(65÷73)%
Brookfield viscosity (at 25 °C, spindle 5; 10 rpm)	EN ISO 3219	(30,000±6,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.16÷1.22)kg/L
Drying time		60 ÷ 120 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class II (5<S _D < 50 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.

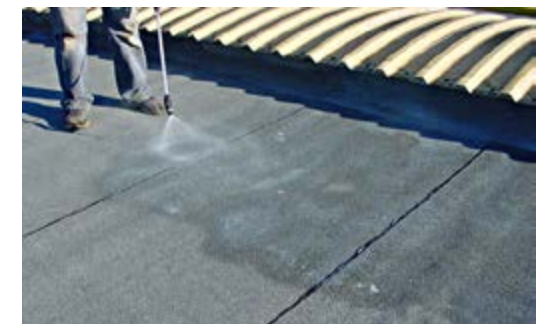




PAINTS

Protective and decorative products for coating, formulated with bitumen or synthetic resins, they are available with solvent or water basis, and they are used to:

- Protect and decorate bitumen sheaths and bitumen corrugate panels, waterproofing works with hot-or cold-applied bitumen, unfinished or plastered walls, surfaces made of concrete, fibre-cement, wood, metal, plaster, shingles and roof tiles, road surfaces;
- Improve thermal insulation creating a highly reflective shield against UV rays;
- Improve the appearance, reduce the roughness of the surface, restore the colouring of old surfaces and flooring;
- Reduce the energy consumption of summer air conditioning;
- Improve the performance and efficiency of photovoltaic panels;
- Extend the life of the treated surfaces.



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ARDESIA-FIX

Transparent fixative paint

Description: Colourless water-based fixative paint-primer, formulated with selected resins and special additives

- Advantages:**
- Excellent adhesion even on smooth and poorly absorbent surfaces.
 - Durable over time.
 - Weather resistant.
 - Easy to apply.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- To protect and fix the ceramic grit and slate on the polymer-bitumen membrane, at the same time highlighting the colour with the wet effect it manages to give.
 - Excellent as a fixative primer on concrete, tiled or metal surfaces before waterproofing with liquid coatings and waterproofing.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Check that there is no rising damp or water backpressure.
 - Apply at temperatures between +5°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Apply Ardesia-Fix by brush, roller, broom or airless spray.
 - As a fixative, it can be applied as a single coat with 10% dilution in case of application on new slated membranes. For use on "old" membranes that are dusty and have problems of detachment of the slate, we recommend applying two coats to obtain a better penetration into the surface and an excellent cohesion of the grit; the first coat should be diluted to 15-20%, the second coat should be applied after the first coat dries, or as it is, or diluted 5-10%.
 - To improve the aesthetic appearance of the slated membrane (wet effect) and brighten up the colours, the material can be applied in a single coat diluted with water at 20 to 50% according to the desired surface effect.
 - Used as a primer, the product should be used undiluted in a single coat.
 - Wash tools with water immediately after use; after hardening, the product should be removed with hot water or common thinners.

Consumption: The consumption of Ardesia-Fix depends the use and surface to be treated (on average 100-200 g/m²).

- Warnings:**
- Avoid applying the product on surfaces subject to standing water.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Avoid extreme conditions of heat and cold and days with adverse weather conditions during application. The still wet layer can be washed away by rainwater or ruined by dew and frost.

- Warnings:**
- The product can be stepped on in case of occasional maintenance.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 1, 5, 10, and 20 kg metal or plastic pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Opalescent liquid
Colour		Transparent
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(11÷13)%
Density (at 20 °C)	EN ISO 2811-1	(0.98 ÷ 1.04) kg/L
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	13 ÷ 15 seconds
Drying time		60 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



HA

ITALIA

HYDROVERN SA

Protective and decorative pigmented paint

Description: Coloured coating, based on selected synthetic resins in water dispersion and special additives.

- Advantages:**
- Ensures effective protection against UV rays and weathering.
 - Good adhesion and elasticity.
 - Easy application.
 - Stable colour over time.
 - Low maintenance, does not require additional protection.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** Protect and decorate:
- Polymer-bitumen membranes containing talc, sand or slate.
 - Hot bituminous waterproofing with oxidised bitumen and cold with stabilised bituminous emulsions.
 - Bare and plastered masonry, surfaces and prefabricated concrete elements.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - Before applying, check the solidity and efficiency of the water run-off points.
 - The paint must be protected from rain, dew, or fog until it is completely dry: humidity and low temperatures lengthen drying times.

- Application:**
- Apply Hydrovern SA by brush, broom, roller or spray.
 - Mix well before use.
 - Apply at least two coats with the product as is, the second or following coat only on the perfectly dry film.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required in order to obtain a sufficient covering effect.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Application must include at least two layers to obtain uniform colour to the waterproofing layer, using a total of approx. 400 g/m² of Hydrovern SA on the aged smooth polymer-bitumen membranes. For slated polymer-bitumen membranes or particularly porous surfaces, consumption can increase to 700 g/m².

- Warnings:**
- We recommend applying the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - In winter, plan to finish the application in the early afternoon to allow for the correct formation of the paint film (too humid days should always be avoided).
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.

Warnings:

- In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.
- If the roof includes insulating packages, a shorter restore is advisable.
- It can be stepped on in case of occasional maintenance.
- Do not paint the inside of water containers.
- Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
- Consult the information at the bottom of this document.
- For further information, request the safety data sheet.

Packaging:

1, 5, 10, 20 and 25 kg metal or plastic pails.

Available colours:



NB: other colours are available on request for minimum production quantities.



HYDROVERN SA

Protective and decorative pigmented paint

Technical data:

MAIN CHARACTERISTICS		
Appearance		Dense liquid
Colour		Red, White, Grey, Green
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(63÷69)%
Brookfield viscosity (at 20 °C, spindle 3; 10 rpm)	EN ISO 3219	Red (7,000±1,500)cP
		White (11,000±2,000)cP
		Grey (7,000±1,500)cP
		Green (7,000±1,500)cP
Density (at 20 °C)	EN ISO 2811-1	Red (1.50÷1.60)kg/L
		White (1.42÷1.52)kg/L
		Grey (1.50÷1.60)kg/L
		Green (1.50÷1.60)kg/L
Drying time		90÷120 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



HYDROVERN GM

High performance protective and decorative pigmented paint

Description: Coloured coating, based on selected synthetic resins in water dispersion and special additives, with high performance characteristics.

- Advantages:**
- Ensures effective protection against UV rays and weathering.
 - Good adhesion and elasticity.
 - Easy application.
 - Stable colour over time.
 - Low maintenance, does not require additional protection.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** Protect and decorate:
- Polymer-bitumen membranes containing talc, sand or slate.
 - Hot bituminous waterproofing with oxidised bitumen and cold with stabilised bituminous emulsions.
 - Bare and plastered masonry, surfaces and prefabricated concrete elements.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - The solidity and efficiency of the water run-off points must be checked before application.
 - The paint must be protected from rain, dew, or fog until it is completely dry: humidity and low temperatures lengthen drying times.

- Application:**
- Apply Hydrovern GM by brush, broom, roller or spray.
 - Mix well before use.
 - As a first coat, apply Hydrovern GM diluted by a maximum of 5% with water depending on the type of surface and ambient conditions.
 - The second and any subsequent coats must be applied with the product as is and must only be applied on the perfectly dry film.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required in order to obtain a sufficient covering effect.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

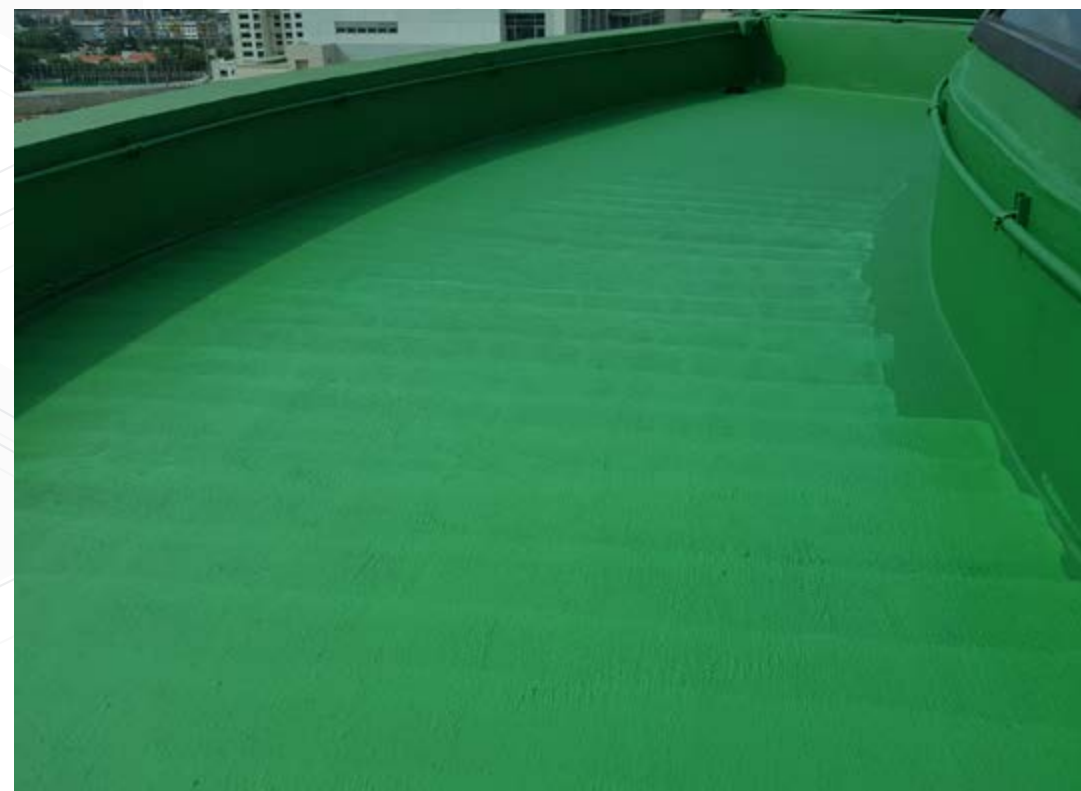
Consumption: Application must include at least two layers to obtain uniform colour to the waterproofing layer, using a total of 400 g/m² of Hydrovern GM on the aged smooth polymer-bitumen membranes. For slated polymer-bitumen membranes or particularly porous surfaces, consumption can increase to approx. 700 g/m².

- Warnings:**
- We recommend applying the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - In winter, plan to finish the application in the early afternoon to allow for the correct formation of the paint film (too humid days should always be avoided).
 - We advise against applying the product on newly applied bituminous surfaces, which

- Warnings:**
- could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.
 - If the roof includes insulating packages, a shorter restore is advisable.
 - It can be stepped on in case of occasional maintenance.
 - Do not paint the inside of water containers.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal or plastic pails.

Available colours:



HYDROVERN GM

High performance protective and decorative pigmented paint

Technical data:

MAIN CHARACTERISTICS		
Appearance		Dense liquid
Colour		Grey, Red, Green, White, Brown
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(56÷62)%
Brookfield viscosity (at 20 °C, spindle 3; 10 rpm)	EN ISO 3219	Grey (5,000±1,000)cP
		Red (5,000±1,000)cP
		Green (5,000±1,000)cP
		White (5,000±1,000)cP
		Brown (5,500±1,100)cP
Density (at 20 °C)	EN ISO 2811-1	Grey (1.44÷1.52)kg/L
		Red (1.38÷1.46)kg/L
		Green (1.40÷1.48)kg/L
		White (1.45÷1.55)kg/L
		Brown (1.42÷1.50)kg/L
Drying time		90÷120 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



HYDROVERN W

Protective and decorative pigmented paint with high covering power

Description: Coloured coating, based on selected synthetic resins in water dispersion and special additives, with high covering power.

- Advantages:**
- Ensures effective protection against UV rays and weathering.
 - Good adhesion and elasticity.
 - Easy application.
 - Stable colour over time.
 - Low maintenance, does not require additional protection.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** Protect and decorate:
- Polymer-bitumen membranes containing talc, sand or slate.
 - Hot bituminous waterproofing with oxidised bitumen and cold with stabilised bituminous emulsions.
 - Bare and plastered masonry, surfaces and prefabricated concrete elements.
 - Suitable for protecting and colouring multi-purpose sports pavings and the horizontal markings on them; suitable for the coloured restoration of old surfaces, improving their aesthetic appearance and reducing their roughness.
 - On porous surfaces diluted with 15-20% of water as a priming base.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - Before applying, check the solidity and efficiency of the water run-off points.
 - The paint must be protected from rain, dew, or fog until it is completely dry: humidity and low temperatures lengthen drying times.

- Application:**
- Apply Hydrovern W by brush, broom, roller or spray.
 - Mix well before use.
 - As a first coat, apply the product diluted up to 5-10% with water depending on the type of surface and ambient conditions.
 - The second and any subsequent coats must be applied with the product as is and must only be applied on the perfectly dry film.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required in order to obtain a sufficient covering effect.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Application must include at least two layers to obtain uniform colour to the waterproofing layer, using a total of 400 g/m² of Hydrovern W on the aged smooth polymer-bitumen membranes. For slated polymer-bitumen membranes or particularly porous surfaces, consumption can increase to 700 g/m².

- Warnings:**
- We recommend applying the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.

Warnings:

- In winter, plan to finish the application in the early afternoon to allow for the correct formation of the paint film (too humid days should always be avoided).
- We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
- In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.
- If the roof includes insulating packages, a shorter restore is advisable.
- It can be stepped on in case of occasional maintenance.
- Do not paint the inside of water containers.
- Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
- Consult the information at the bottom of this document.
- For further information, request the safety data sheet.

Packaging:

1, 5, 10, 20 and 25 kg metal or plastic pails.

Available colours:



NB: other colours are available on request for minimum production quantities.



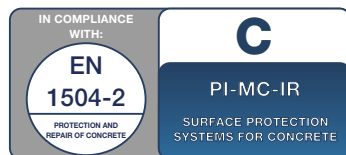
HYDROVERN W

Protective and decorative pigmented paint with high covering power

Technical data:

MAIN CHARACTERISTICS		
Appearance		Dense liquid
Colour		Grey, Red, Green, White, Brown
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(57÷63)%
Brookfield viscosity (at 20 °C, spindle 3, 10 rpm)	EN ISO 3219	(7,000±1,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.45÷1.55)kg/L
Drying time		90÷120 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _b > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _b < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbercy of surfaces.



HYDROSPORT

Protective and decorative pigmented paint for sports pavings

Description: Coloured water-based coating for the protection, colouring and restoration of multi-purpose sports pavings based on selected synthetic resins and special additives.

- Advantages:**
- Ensures effective protection against UV rays and weathering.
 - Good adhesion and elasticity.
 - Easy application.
 - Stable colour over time.
 - Low maintenance, does not require additional protection.
 - Walkable.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

Applications: - Hydrosport is suitable for the protection and colouring of multi-purpose sports pavings and for the creation of horizontal markings on them. It is applied to improve the aesthetic aspect, reduce the roughness of the surface and for the coloured restoration of old surfaces.

Paint also suitable for protecting and decorating:

- Bare and plastered masonry works, concrete pavings.

Surface preparation:

- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
- Before applying, check the solidity and efficiency of the water run-off points.
- The paint must be protected from rain, dew, or fog until it is completely dry: humidity and low temperatures lengthen drying times.

Application:

- Apply Hydrosport by brush, broom, roller or spray.
- Mix well before use.
- Product ready for use, dilutable with a maximum of 5% of water.
- Apply at least two coats with the product as is, the second or following coat only on the perfectly dry film.
- After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Consumption varies according to the type of surface between 150 and 250 g/m² per layer. Application must include at least two coats to obtain a uniform colour (when covering concrete floors, three coats are required).

Warnings:

- We recommend applying the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
- In winter, plan to finish the application in the early afternoon to allow for the correct formation of the paint film (too humid days should always be avoided).
- Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
- We advise against applying the product on newly applied bituminous surfaces, which

Warnings:

- could still release hydrocarbons and cause adhesion problems of the film on the sheath.
- In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.
- Do not paint the inside of water containers.
- Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
- For further information, request the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal or plastic pails.

Available colours:



NB: other colours are available on request for minimum production quantities.



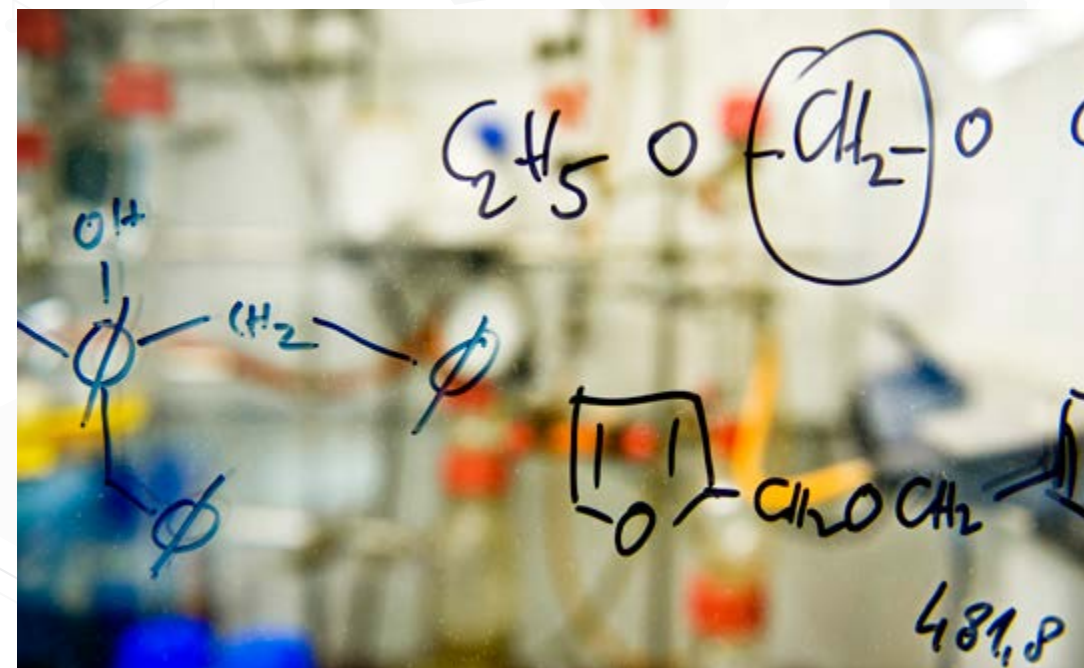
HYDROSPORT

Protective and decorative pigmented paint for sports pavings

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Red, White, Green, Grey
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(62±66)%
Brookfield viscosity (at 20 °C, spindle 4; 10 rpm)	EN ISO 3219	(7,000±1,500)cP
Density (at 20 °C)	EN ISO 2811-1	(1.50±1.60)kg/L
Drying time		90±120 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PR-PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _b > 50 m
Water vapour permeability	EN ISO 7783	Classe I (S _b < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²
Abrasion resistance (Taber test)	EN ISO 5470-1	< 3 g
Impact resistance EN ISO	EN ISO 6272-1	classe III (≥20 Nm)

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



WHITE CERAMIC FL

High SRI elastoplastic white paint

Description: Water-based white paint formulated with selected synthetic resins and special pigments and additives that give high solar reflectance properties.

- Advantages:**
- Ensures effective protection against UV rays and weathering.
 - Ensures excellent thermal insulation by creating a highly reflecting barrier against sunrays, reducing both the temperature on the external surface and improving thermal well-being inside living spaces.
 - Reduces the energy consumption of air conditioning in summer.
 - Improves the yield and efficiency of photovoltaic panels.
 - Extends the life of coats.
 - Excellent adhesion and elasticity.
 - Easy application.
 - Stable colour over time.
 - Low maintenance, does not require additional protection.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** Protect and decorate:
- Polymer-bitumen membranes and corrugated bitumen sheets.
 - Hot bituminous waterproofing with oxidised bitumen and cold waterproofing with stabilised bituminous emulsions.
 - Surfaces in concrete, asbestos cement, wood, metal surfaces, plaster, pantiles and roof tiles.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - Before applying, check the solidity and efficiency of the water run-off points.
 - The paint must be protected from rain, dew, or fog until it is completely dry: humidity and low temperatures lengthen drying times.

- Application:**
- Apply by brush, broom, roller or spray.
 - Mix the product before use.
 - As a first coat, apply White Ceramic FL diluted up to 10% with water.
 - The second and any subsequent coats must be applied with the product as is or with 5% dilution and must be applied only on the perfectly dry film (at least after 6 hours) and must preferably be crossed with respect to the previous one.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required in order to obtain a sufficient covering effect.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Application must include at least two layers to give the waterproofing layer a uniform colour. Consumption varies according to the nature and degree of porosity of the surface, overall 200-300 g/m² on aged smooth polymer-bitumen membranes and 450-650 g/m² on slated membranes.

- Warnings:**
- We recommend applying the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - Do not apply on very hot surfaces as the process of formation of the paint film would be excessively accelerated with negative consequences on the cohesion and adhesion of the product to the surface.
 - In winter, it is preferable to finish application in the early afternoon to allow for the correct formation of the paint film (too humid days should always be avoided).
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.
 - If the roof includes insulating packages, a shorter restore of the paint is advisable.
 - It can be stepped on in case of occasional maintenance.
 - Do not use for surfaces or containers of edible liquids, for drinking water or that may come into contact with solvents or mineral oils.
 - Do not paint tanks, basements, or channels subject to backpressure and water pressure.
 - To maintain high reflectivity and thus efficiency, periodic maintenance of the surfaces is recommended, with visual inspection and removal of dirt by hydro-washing.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal or plastic pails.

Other versions: White Ceramic FL Fire Resistant is available; it is a version of the product with the addition of particular additives, which give self-extinguishing properties. White Ceramic FL Fire Resistant is certified resistant to external fire, in class B_{Roof}(t2) according to EN 13501-5:2016 (specifications present in the product technical sheet).

Technical data:

MAIN CHARACTERISTICS		
Appearance		Fluid thixotropic paste
Colour		White
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(66÷72)%
Brookfield viscosity (at 20 °C, spindle 5; 10 rpm)	EN ISO 3219	(6,000±1,200)cP
Density (at 20 °C)	EN ISO 2811-1	(1.45÷1.55)kg/L
pH (at 20 °C)		7.0-8.5
Drying time		30÷60 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.

WHITE CERAMIC FL

High SRI elastoplastic white paint



WHITE

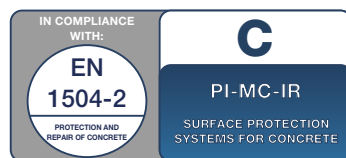
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

Specifications for COOL ROOFS: Thanks to its high SRI value, White Ceramic FL allows obtaining LEED credits for the reduction of the heat island effect and ensures an increase in the energy efficiency of the photovoltaic panels.

SOLAR REFLECTANCE, THERMAL EMITTANCE, SOLAR REFLECTANCE INDEX			
Solar Reflectance Index (SRI) ASTM E1980-11	Thermal emittance (E) ASTM C1371-15	Solar reflectance (R) ASTM E903-12	Surface temperature (T _s)
103	92	82	43.4 °C
LEED CERTIFICATION REQUIREMENTS v 4.1 BD+C			
S HEAT ISLAND EFFECT CREDIT: ROOFS	Use roofing materials that have a Solar Reflectance Index (SRI) greater than or equal to the value shown in the table below for a minimum of 75% of the roof area.		
	Type of roof	Gradient	SRI
	Low slope roofs	≤15%	82
Highly sloping roofs	>15%	39	
Membranes painted with White Ceramic FL have an SRI > 82.			



CERAMIC FL



WHITE CERAMIC FL FIRE RESISTANT

High reflectance, fire-resistant white paint

Description: WaterSolvent-based protective and decorative paint formulated with selected synthetic resins and special additives that give high solar reflectance properties. The formulation of the product features particular additives, which confer self-extinguishing properties.

- Advantages:**
- Reduces the fire risk of the coating in the event that burning embers fall on the roof.
 - Ensures excellent thermal insulation by creating a highly reflecting barrier against sunrays, reducing both the temperature on the external surface and improving thermal well-being inside living spaces.
 - Reduces the energy consumption of air conditioning in summer.
 - Improves the yield and efficiency of photovoltaic panels.
 - Extends the life of coats.
 - Excellent adhesion and elasticity.
 - Easy application.
 - Stable colour over time.
 - Low maintenance, does not require additional protection.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** Protect and decorate:
- Polymer-bitumen membranes and corrugated bitumen sheets.
 - Hot bituminous waterproofing with oxidised bitumen and cold waterproofing with stabilised bituminous emulsions.
 - Surfaces in concrete, asbestos cement, wood, metal surfaces, plaster, pantiles and roof tiles.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - Before applying, check the solidity and efficiency of the water run-off points.
 - The paint must be protected from rain, dew, or fog until it is completely dry: humidity and low temperatures lengthen drying times.

- Application:**
- Apply by brush, broom, roller or spray.
 - Mix the product before use.
 - As a first coat, apply the product diluted up to 10% with water.
 - The second and any subsequent coats must be applied with the product as is or with 5% dilution and must be applied only on the perfectly dry film (at least after 6 hours) and must preferably be crossed with respect to the previous one.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required in order to obtain a sufficient covering effect.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

- Consumption:**
- Application must include at least two layers to give the waterproofing layer a uniform colour. Consumption varies according to the nature and degree of porosity of the surface, overall 200-300 g/m² on aged smooth polymer-bitumen membranes or concrete and 450-700 g/m² on slated membranes.

- Consumption:**
- In the case of combining the two coats of a non-woven glass fibre reinforcement of (50±10) g/m², total consumption of the product is approximately 1.0-1.2 kg/m².

- Warnings:**
- We recommend applying the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - Do not apply on very hot surfaces as the process of formation of the paint film would be excessively accelerated with negative consequences on the cohesion and adhesion of the product to the surface.
 - In winter, it is preferable to finish application in the early afternoon to allow for the correct formation of the paint film (too humid days should always be avoided).
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.
 - If the roof includes insulating packages, a shorter restore is advisable.
 - It can be stepped on in case of occasional maintenance.
 - Do not use for surfaces or containers of edible liquids, for drinking water or that may come into contact with solvents or mineral oils.
 - Do not paint tanks, basements, or channels subject to backpressure and water pressure.
 - To maintain high reflectivity and thus efficiency, periodic maintenance of the surfaces is recommended, with visual inspection and removal of dirt by hydro-washing. For further information, request the safety data sheet.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:** 1, 5, 10, 20 and 25 kg metal or plastic pails.



WHITE CERAMIC FL FIRE RESISTANT

High reflectance, fire-resistant white paint

Technical data:

MAIN CHARACTERISTICS		
Appearance		Fluid thixotropic paste
Colour		White
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(66±72)%
Brookfield viscosity (at 20 °C, spindle 5; 10 rpm)	EN ISO 3219	(12,000±2,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.30±1.38)kg/L
pH (at 20 °C)		7.0÷8.5
Drying time		30 ÷ 60 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

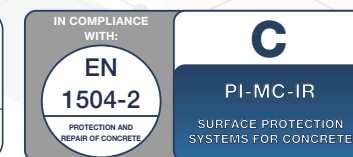
¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbercy of surfaces.

FIRE RESISTANCE CLASSIFICATION EN 13501-5:2016	
Classification Report no. N2476/21 T2i Trasferimento tecnologico e innovazione s.c.a.r.l. (LAB no. 0170L)	
Classification method	EN 13501-5:2016 Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests
Test method	CEN/TS 1187:2012 -Test 2 Test methods for roofs/roof coverings exposed to external fire
Classification	The White Ceramic FL Fire Resistant roof covering in relation to its external fire attack characteristics is classified: B_{ROOF}(t2) <i>Validity of the classification for the following fields of application:</i> - Roof covering – Gradient: all gradients. - On all combustible and non-combustible substrates with density not less than 20 kg/m ³ . - Interposition between the first and second coat of paint, of a layer of non-woven glass fibre reinforcement fabric of (50±10) g/m ²

SOLAR REFLECTANCE, THERMAL EMITTANCE, SOLAR REFLECTANCE INDEX			
Solar Reflectance Index (SRI) [%] ASTM E1980-11	Thermal emittance (IE) EN 15976	Solar reflectance (SR) ASTM C1549-09	Surface temperature (T _s) ASTM E1980-11
99.4	0.871	0.799	44.9 °C



LEED CERTIFICATION REQUIREMENTS v 4.1 BD+C			
SS HEAT ISLAND EFFECT CREDIT: ROOFS	Use roofing materials that have a Solar Reflectance Index (SRI) greater than or equal to the value shown in the table below for a minimum of 75% of the roof area.		
	Type of roof	Gradient	SRI
	Low slope roofs	≤15%	82
Highly sloping roofs	>15%	39	
Membranes painted with WHITE CERAMIC FL FIRE RESISTANT have an SRI > 82.			



METALKOTE SPECIAL

Protective aluminium paint with synthetic resins

Description: Protective water-based paint, formulated with aluminium pigments, selected resins and special additives.

- Advantages:**
- Thermally insulating: once dry, it creates a high-reflectance barrier film against UV rays.
 - Good covering power.
 - Does not drip at high temperatures.
 - Follows the movements and expansions of polymer-bitumen membranes even in the most severe thermal excursions.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- It is used as a protective and decorative coating for polymer-bitumen membranes giving them a bright silvery appearance.
 - It can also be used on metal roof structures after applying Metal-Fond Primer.
 - It is particularly suitable where the use of solvent-based products is prohibited.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - Before applying, check that waterproofing ensures proper run-off of rainwater.
 - Apply at temperatures between +5°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Mix lightly and/or turn the bucket upside down to obtain a homogeneous product.
 - Apply Metalkote Special as is by airless spray, brush or roller.
 - The paint should be applied only in one direction; laying in different directions modifies the leafing effect of the aluminium paste.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required in order to obtain a sufficient covering effect.
 - Application waiting time on freshly waterproofed surfaces: 6 months on hot flame bituminous membranes or products; 3 months on cold-laid bituminous products; 24 hours between coats.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Total consumption varies between 200 and 300 g/m². We recommend applying two coats. Apply the second coat when the first is perfectly dry.

Warnings:

- We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath. We recommend waiting a few months after laying the new sheath to allow for the complete elimination of bituminous hydrocarbons that may surface.
- In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.
- Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
- Application on water-based bituminous liquid sheaths should be avoided; in this case, it is advisable to apply a coloured acrylic paint.
- It can be stepped on in case of occasional maintenance.
- For the excellent maintenance of the coating of the sheaths, periodic restoration is recommended; it can vary depending on the exposure and slope of the roof, the aggressiveness of the industrial atmosphere and climatic zones, and the presence of insulated materials.
- Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
- For further information, request the safety data sheet.

Packaging:

5, 10, 20 kg metal pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Aluminium
Shelf life in closed original packaging		12 months
Solid content (m/m at 130 °C)	EN ISO 3251	(15÷17)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	17÷23 seconds
Density (at 20 °C)	EN ISO 2811-1	(1.02÷1.08)kg/L
pH (at 20 °C)		7.0-7.5
Drying time		2÷3 hours ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptivity of surfaces.

ELASTOFLUID 150

Quick-drying protective and decorative pigmented paint

Description: Solvent-based coloured coating, formulated with selected elastomeric resins and special additives.

- Advantages:**
- Ensures effective protection against UV rays and weathering.
 - Has a greater resistance to standing water than common water emulsion paints.
 - Extends the life of coats.
 - Perfect adhesion.
 - Fast drying of the film.
 - Frost resistant.
 - Resistant to low temperatures: can also be used in winter.
 - High resistance on surfaces in industrial areas or near the sea.
 - Effective deep penetration on surfaces such as bituminous surfaces and concrete.
 - Applied on slated membranes, it protects and fixes the grit on the surface, preventing its detachment and increasing its life.

- Applications:** Suitable to coat:
- talc or slated polymer-bitumen membranes.
 - bituminous liquid waterproofing membranes (water or solvent based) also affected by the occasional presence of standing water.
 - concrete and fibre cement.
 - wood and metal surfaces, plaster, pantiles and roof tiles.
 - it can be used as a paint for horizontal road markings for exteriors.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - Before applying, check that waterproofing ensures proper run-off of rainwater.
 - Apply at temperatures between 0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- The product is ready to use.
 - Apply Elastofluid 150, after mixing, by brush, broom, roller or airless spray. It is possible to dilute the product up to a maximum of 10% using nitro or synthetic thinners.
 - Apply in 2 cross coats. The second coat should be applied when the first is perfectly dry.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required in order to obtain a sufficient covering effect.
 - Use common synthetic thinners to clean tools.

- Consumption:** Total consumption of the product varies according to the nature and porosity of the surface to be treated, and is on average:
- On slated polymer-bitumen membranes: g/m²
 - On talc polymer-bitumen membranes: 250-350 g/m²
 - On sheet metal: 200-300 g/m²
 - On road surfaces and concrete: 200-300 g/m²

- Warnings:**
- Do not use indoors or in non-ventilated premises.
 - We recommend not to exceed the above-mentioned consumption, as this could lead to an imperfect drying of the film in depth, due to the persistence, under the surface layer, of fractions of unevaporated solvent. The total waterproofness of the film dried on the surface prevents their normal evaporation.
 - Do not apply on very hot surfaces as the process of formation of the paint film would be excessively accelerated with negative consequences on the adhesion of the product to the surface.
 - Do not apply Elastofluid 150 on polymer-bitumen membranes based on styrene butadiene (SBS).
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.
 - If the roof has insulating packages in the stratigraphy (situation not recommended, without prior check of the dimensional stability of the waterproofing layer to be protected with paint), a shorter restore is required.
 - The product applied to polymer-bitumen membranes may form surface micro-cracks over time that will not, however, compromise the waterproofing.
 - It can be stepped on in case of occasional maintenance.
 - Do not use for surfaces or containers of edible liquids, for drinking water or that may come into contact with solvents or mineral oils.
 - Do not paint tanks, basements or channels subject to strong water backpressure or pressurised water.
 - Store in tightly sealed original packaging at a temperature no lower than +5 °C.
 - Flammable product
 - Do not expose to direct sunlight, temperatures higher than 40 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 1, 5, 10, and 20 kg metal pails.

Available colours:



N.B.: other colours are available on request for minimum production quantities.

ELASTOFLUID 150

Quick-drying protective and decorative pigmented paint

Technical data:

MAIN CHARACTERISTICS		
Appearance		Dense liquid
Colour		Grey, White, Red, Green, Yellow, Military Green
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23°C
Solid content (m/m at 130 °C)	EN ISO 3251	(60÷68)%
Brookfield viscosity (at 20 °C, spindle 2, 10 rpm)	EN ISO 3219	(2,100±400)cP
Density (at 20 °C)	EN ISO 2811-1	(1.23÷1.31)kg/L
Drying time		30 ÷ 60 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbcency of surfaces.



ELASTOFLUID BIANCO REFLEX

High SRI white paint

Description: Solvent-based protective and decorative paint formulated with selected synthetic resins and special additives that give high solar reflectance properties.

- Advantages:**
- Ensures effective protection against UV rays and weathering.
 - Has a greater resistance to standing water than common water emulsion paints.
 - Ensures excellent thermal insulation by creating a highly reflective barrier of the sun's rays, improving the thermal well-being of inhabited premises.
 - Reduces the energy consumption of air conditioning in summer.
 - Improves the yield and efficiency of photovoltaic panels.
 - Extends the life of coats.
 - Perfect adhesion.
 - Frost resistant.
 - Resistant to low temperatures: can also be used in winter.
 - High resistance on surfaces in industrial areas or near the sea.
 - Applied on slated membranes, it protects and fixes the grit on the surface, preventing its detachment and increasing its life.

- Applications:** Suitable to coat:
- smooth slated polymer-bitumen membranes.
 - bituminous liquid waterproofing membranes (water or solvent based) also affected by the occasional presence of standing water.
 - concrete and fibre cement.
 - wood and metal surfaces, plaster, pantiles and roof tiles.

- Surface preparation:**
- Before applying, remove detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - Check that the surface to be waterproofed ensures proper run-off of rainwater.
 - Apply at temperatures between +0 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- The product is ready to use.
 - Mix before use.
 - Apply Elastofluid Bianco Reflex, after mixing, by brush, broom, roller or airless spray. It is possible to dilute the product up to a maximum of 10% using nitro or synthetic thinners.
 - Apply in 2 cross coats. The second coat should be applied when the first is perfectly dry.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required in order to obtain a sufficient covering effect.
 - Use common synthetic thinners to clean tools.

- Consumption:** Total consumption of the product varies according to the nature and porosity of the surface to be treated, and is on average:
- on slated polymer-bitumen membranes: 500-700 g/m².
 - on talc polymer-bitumen membranes: 250-350 g/m².
 - on sheet metal: 200-300 kg/m².

- Warnings:**
- Do not use indoors or in non-ventilated premises.
 - Do not apply Elastofluid Bianco Reflex on polymer-bitumen membranes based on styrene butadiene (SBS).
 - We recommend not to exceed the above-mentioned consumption, as this could lead to an imperfect drying of the film in depth, due to the persistence, under the surface layer, of fractions of unevaporated solvent. The total waterproofness of the film dried on the surface prevents their normal evaporation.
 - Do not apply to wet or damp surfaces.
 - Do not apply on very hot surfaces as the process of formation of the paint film would be excessively accelerated with negative consequences on the adhesion of the product to the surface.
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath. We recommend applying on bituminous surfaces only 6 months after laying.
 - In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.
 - If the surface is dirty, clean it by brushing and washing with a pressure washer.
 - If you need to lay immediately on a new coat, the surface of the last layer must be slated or with a non-woven synthetic material surface finish.
 - If the roof has insulating packages in the stratigraphy (situation not recommended, without prior check of the dimensional stability of the waterproofing layer to be protected with paint), a shorter restore is required.
 - The product applied to polymer-bitumen membranes may form surface micro-cracks over time that will not, however, compromise the waterproofing.
 - It can be stepped on in case of occasional maintenance.
 - Do not use for surfaces or containers of edible liquids, for drinking water or that may come into contact with solvents or mineral oils.
 - Do not paint tanks, basements or channels subject to strong water backpressure or pressurised water.
 - To maintain high reflectivity and therefore efficiency, periodic maintenance of the surfaces is recommended, with visual inspection and removal of dirt by hydro-washing.
 - Flammable product.
 - Do not expose to temperatures over 40 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:** 1, 5, 10, and 20 kg metal pails.

ELASTOFLUID BIANCO REFLEX

High SRI white paint

Technical data:

MAIN CHARACTERISTICS		
Appearance		Dense liquid
Colour		White
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23°C
Solid content (m/m at 130 °C)	EN ISO 3251	(60÷68)%
Brookfield viscosity (at 20 °C, spindle 2; 10 rpm)	EN ISO 3219	(2,100±400)cP
Density (at 20 °C)	EN ISO 2811-1	(1.23÷1.31)kg/L
Drying time		30 ÷ 60 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.

PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²



Specifications for COOL ROOFS: Thanks to its high SRI value, Elastofluid Bianco Reflex allows obtaining LEED credits for the reduction of the heat island effect and ensures an increase in the energy efficiency of the photovoltaic panels.

SOLAR REFLECTANCE, THERMAL EMITTANCE, SOLAR REFLECTANCE INDEX			
Solar Reflectance Index (SRI) ASTM E1980-11	Thermal emittance (E) ASTM C1371-15	Solar reflectance (R) ASTM E903-12	Surface temperature (T _s)
103	90	82	43.5 °C

LEED CERTIFICATION REQUIREMENTS v 4.1 BD+C			
SS HEAT ISLAND EFFECT CREDIT: ROOFS	Type of roof	Gradient	SRI
	Low slope roofs	≤15%	82
	Highly sloping roofs	>15%	39
Membranes painted with Elastofluid Bianco Reflex have an SRI > 82.			



ALUMBIT D65

Protective bituminous aluminium waterproofing coating

- Description:** Solvent-based protective waterproofing coating, formulated with aluminium paste, bitumen, selected synthetic resins and special flame retardant additives.
- Advantages:**
- Thermally insulating: once dry, it creates a high-reflectance barrier film against UV rays.
 - Self-extinguishing effect: good flame protection.
 - Does not drip at high temperatures.
 - Follows the movements and expansions of polymer-bitumen membranes even in the most severe thermal excursions.
 - Antioxidant and anti-rust action.
 - Good covering power.
 - Resistance to corrosion due to soot and exhaust fumes.
 - Works as a sealant for micro-cracks.
- Applications:**
- As a protective coating for exposed cold- or hot-applied polymer-bitumen membrane coverings, which it provides with a glossy silver appearance.
 - Suitable for the coating of smooth polymer-bitumen membranes applied on insulation boards.
 - Recommended for metal structures of sheet metal roofs, gutters, downpipes, metal sheds, tanks, chimneys and iron and galvanized supports in general.
 - Suitable for painting of supports and waterproofing membranes in PVC-P, FPO/TPO, and EPDM.
 - Suitable as a protective coating for exposed bituminous liquid waterproofing membranes (like Elastiden C and Elastiden Plus).
- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - Do not apply to wet or damp surfaces.
 - Before applying, check that waterproofing ensures proper run-off of rainwater.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.
- Application:**
- Mix the product before use.
 - Apply Alumbit D65 by brush, broom, roll or airless spray (the product can be diluted with nitro thinners or common solvent-based bitumen primers).
 - The paint should be applied only in one direction; laying in different directions modifies the leafing effect of the aluminium paste.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required in order to obtain a sufficient covering effect.
 - Use common synthetic thinners to clean tools.
- Consumption:** Total product consumption of 600 to 800 g/m². We recommend applying two coats. Apply the second coat when the first is perfectly dry.

- Warnings:**
- Carry out a preliminary application test to check whether the product is compatible with the surface. We recommend waiting a few months after laying the new sheath to allow for the complete elimination of bituminous hydrocarbons that may surface.
 - Do not apply on very hot surfaces, which would adversely affect the product's adhesion to the surface.
 - The liquid product inside the packaging has a brown/black appearance and only takes on its typical aluminium colour after mixing.
 - It can be stepped on in case of occasional maintenance.
 - Flammable product. Store in tightly sealed original packaging.
 - Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.
- Packaging:**
- 5, 10, 20 kg metal pails.
 - 200 kg metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Aluminium
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(62÷68)%
Brookfield viscosity (at 20 °C, spindle 5; 10 rpm)	EN ISO 3219	(5,000±1,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.04÷1.10)kg/L
Closed-cup flash point	ASTM D3828-87	>+23°C
Drying time		100÷120 minutes ¹
Reaction to external fire (Nordtest Method ²)	NT-FIRE 006 ENV 1187-2	Compliant

- ¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptivity of surfaces.
- ² A normal slated polymer-bitumen membrane subjected to the fire resistance test (Test Method NT Fire 006, valid for Scandinavian countries and Denmark) does not pass the test. However, the same slated membrane protected with two coats of Alumbit D65 (about 1 kg/m²) meets the stringent limits imposed by Swedish standards.

ALUMCOAT

Protective bituminous aluminium coating for metal surfaces

Description: Solvent-based decorative waterproofing coating, formulated with aluminium paste, bitumen, selected synthetic resins and special additives.

- Advantages:**
- Thermally insulating: once dry, it creates a high-reflectance barrier film against UV rays.
 - Antioxidant and anti-rust action.
 - Does not drip at high temperatures.
 - Follows the movements and expansions of polymer-bitumen membranes even in the most severe thermal excursions.

Applications: Used as a protective coating for roofing in polymer-bitumen membranes, bituminous liquid sheaths, fibre cement and galvanised sheet metal, gutters, pipes, giving them a bright silvery appearance.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - Before applying, check that waterproofing ensures proper run-off of rainwater.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.
 - Do not apply to wet or damp surfaces.

- Application:**
- Mix the product before use.
 - Apply Alumcoat by brush, broom, roll or airless spray (the product can be diluted with nitro thinners or common solvent-based bitumen primers).
 - The paint should be applied only in one direction; laying in different directions modifies the leafing effect of the aluminium paste.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required in order to obtain a sufficient covering effect.
 - Use common synthetic thinners to clean tools.

Consumption: Total consumption of 800 to 1000 g/m². We recommend applying two coats. Apply the second coat when the first is perfectly dry.

- Warnings:**
- Carry out a preliminary application test to check whether the product is compatible with the surface. We recommend waiting a few months after laying the new sheath to allow for the complete elimination of bituminous hydrocarbons that may surface.
 - Do not apply on very hot surfaces, which would adversely affect the product's cohesion and adhesion to the surface.
 - The liquid product inside the packaging has a brown/black appearance and only takes on its typical aluminium colour after mixing.
 - It can be stepped on in case of occasional maintenance.
 - Flammable product; Store in tightly sealed original packaging.
 - Do not expose to temperatures over 40 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 5, 10, 20 kg metal pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Viscous liquid
Colour		Aluminium
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(78÷86)%
Brookfield viscosity (at 20 °C, spindle 5; 10 rpm)	EN ISO 3219	(5,500±1,000) cP
Density (at 20 °C)	EN ISO 2811-1	(1.17÷1.25) kg/L
Closed-cup flash point	ASTM D3828-87	>+23°C
Drying time		100÷120 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



ALUMSINT 50

Protective aluminium paint with synthetic resins

Description: Solvent-based protective and decorative coating, formulated with aluminium, selected synthetic resins and special additives.

- Advantages:**
- Thermally insulating: once dry, it creates a high-reflectance barrier film against UV rays.
 - Does not drip at high temperatures.
 - Can also be applied in winter.
 - Good covering power.
 - Follows the movements and expansions of polymer-bitumen membranes even in the most severe thermal excursions.
 - High durability.
 - Frost resistant.

- Applications:**
- Used as a protective coating for exposed cold- or hot-applied polymer-bitumen membrane coverings, which it provides with a glossy silver appearance.
 - Recommended for metal structures of sheet metal roofs, gutters, downpipes, metal sheds, tanks, chimneys and iron and galvanized supports in general.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - Do not apply to wet or damp surfaces.
 - Before applying, check that waterproofing ensures proper run-off of rainwater.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Mix the product before use.
 - Apply Alumsint 50 by brush, broom, roll or airless spray (the product can be diluted with nitro thinners).
 - The paint should be applied only in one direction; laying in different directions modifies the leafing effect of the aluminium paste.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required (the next one applied only when the previous is dry) in order to obtain a sufficient covering effect.
 - Use common synthetic thinners to clean tools.

Consumption: Total consumption of 200 to 300 g/m². We recommend applying two coats. Apply the second coat when the first is perfectly dry.

- Warnings:**
- We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the bituminous sheath. We recommend waiting a few months after laying the new sheath to allow for the complete elimination of bituminous hydrocarbons that may surface.
 - In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.
 - Do not apply on very hot surfaces, which would adversely affect the product's adhesion to the surface.
 - It can be stepped on in case of occasional maintenance.
 - Store in tightly sealed original packaging.
 - Flammable product
 - Do not expose to temperatures over 40 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 5, 10, 20 kg metal pails.
 - 200 kg metal drums.
 - 1,000 kg IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Aluminium
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(55÷61)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	20 ÷ 28 seconds
Density (at 20 °C)	EN ISO 2811-1	(1.06÷1.12)kg/L
Closed-cup flash point	ASTM D3828-87	>+23°C
Drying time		100÷120 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptivity of surfaces.

ALUMBIT 50

Protective bituminous aluminium paint

Description: Solvent-based protective and decorative coating, formulated with aluminium paste, bitumen, selected synthetic resins and special additives.

- Advantages:**
- Thermally insulating: once dry, it creates a high-reflectance barrier film against UV rays.
 - Does not drip at high temperatures.
 - Can also be applied in winter.
 - Good covering power.
 - Follows the movements and expansions of polymer-bitumen membranes even in the most severe thermal excursions.
 - High durability.

- Applications:**
- Used as a protective coating for exposed cold- or hot-applied polymer-bitumen membrane coverings, which it provides with a glossy silver appearance.
 - Suitable for the coating of smooth polymer-bitumen membranes applied on insulation boards.
 - Recommended for metal structures of sheet metal roofs, gutters, downpipes, metal sheds, tanks, chimneys and iron and galvanized supports in general.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - Do not apply to wet or damp surfaces.
 - Before applying, check that waterproofing ensures proper run-off of rainwater.
 - Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Mix the product before use.
 - Apply Alumbit 50 by brush, broom, roll or airless spray (the product can be diluted with nitro thinners or common solvent-based bitumen primers).
 - The paint should be applied only in one direction; laying in different directions modifies the leafing effect of the aluminium paste.
 - Polymer-bitumen membranes with non-woven synthetic fabric finish on the surface allow for immediate painting, but more than two coats are required (the next one applied only when the previous is dry) in order to obtain a sufficient covering effect.
 - Use common synthetic thinners to clean tools.

Consumption: Total consumption of 300 to 400 g/m². We recommend applying two coats. Apply the second coat when the first is perfectly dry.

- Warnings:**
- Carry out a preliminary application test to check whether the product is compatible with the surface. We recommend waiting a few months after laying the new sheath to allow for the complete elimination of bituminous hydrocarbons that may surface.
 - Do not apply on very hot surfaces, which would adversely affect the product's adhesion to the surface.
 - The liquid product inside the packaging has a brown/black appearance and only takes on its typical aluminium colour after mixing.
 - Store in tightly sealed original packaging.
 - Flammable product
 - Do not expose to temperatures over 40 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 5, 10, 20 kg metal pails.
 - 200 kg metal drums.
 - 1,000 kg IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Aluminium
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(52÷58)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	22÷30 seconds
Density (at 20 °C)	EN ISO 2811-1	(1.04÷1.10)kg/L
Closed-cup flash point	ASTM D3828-87	>+23°C
Drying time		100÷120 minutes ¹

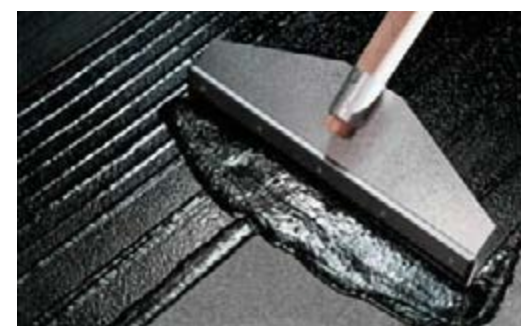
¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptivity of surfaces.



ADHESIVES AND SEALANTS

Adhesives, sealants and glues formulated with bitumen or synthetic resins, available on solvent or water basis, they are used to:

- Seal chimneys, skylights, joints, TPE aerators, flashings and antennas;
- Glue bituminous membranes; glue the overlapping parts of bitumen-polymermembranes and the vertical parts of the roof;
- Repair polymer-bitumen sheaths locally damaged;
- Cold-applied bonding of insulation panels;
- Seal cracks and joints on road asphalt and concrete;
- Fix metal covering on concrete, walls, natural and artificial stone, wood;
- Repair concrete and walls; fill in joints, cracks and pores;
- Waterproof of joints and gaps;
- Glue road signals.



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ISOCOL W

Bituminous adhesive for insulation panels

Description: Water-based adhesive paste, formulated with bitumen, selected synthetic resins and special additives.

- Advantages:**
- Weather resistant.
 - Perfect adhesion to the surface.
 - Quick drying.
 - Cold laying.
 - Use of extruders is not required.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

Applications: Used for fixing insulation panels of various kinds such as glass wool, rock wool, polyurethane and polystyrene (EPS, XPS), vertically, horizontally and on the ceiling, on masonry surfaces of buildings in concrete, cement, brick, wood and other materials provided with sufficient porosity to absorb a part of the water contained in Isocol W. It is also used for bonding insulation panels used to protect concrete foundations waterproofed with polymer-bitumen membranes before being buried with gravel or stabilised material.

Surface preparation: Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.

- Application:**
- The product is ready to use.
 - For use as an adhesive for insulation panels, it can be applied over the entire surface, in spots or in strips, using a float or trowel. When applying in spots, it should be spread with a spatula in the four corners and in the centre of the insulation panel. Immediately after application, the insulation panel is pressed firmly onto the surface to be coated and insulated. To obtain maximum adhesion when laying on bituminous surfaces, wait until the product is dust-free, i.e., when most of the water has evaporated.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

Consumption: Consumption as an adhesive for panels varies according to the method of application: When applying in spots, consumption is approximately 500 g/m² (5 spots per m²), while when applying over the entire surface, consumption is approximately 1000 g/m².

- Warnings:**
- We recommend applying the product at ambient temperatures no lower than +5 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - On large horizontal surfaces, we recommend using breather vents when applying the product between the bituminous membrane and insulation panels to release water vapour.
 - Do not exceed, for each layer applied, the recommended quantity in order not to block evaporation of the water contained in the bituminous liquid product, which would otherwise remain blocked under the dried film.
 - Do not use on surfaces treated with water-repellent products.
 - Do not use on surfaces subject to rising damp or strong water pressure.
 - Do not mix with cement.
 - In any case, we recommend carrying out a preliminary application test to check whether the product adheres perfectly to the surface.

- Warnings:**
- Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

Packaging: 1, 5, 10, and 20 kg metal or plastic pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colour		Black (After drying)
Shelf life in closed original packaging		12 months
Solid content (m/m at 130 °C)	EN ISO 3251	(49÷55)%
Brookfield viscosity (at 20 °C, spindle 5; 6 rpm)	EN ISO 3219	(38,000±7,500)cP
Density (at 20 °C)	EN ISO 2811-1	(1.07÷1.13) kg/L
pH (at 20 °C)		8.0÷9.0
Dust-free time		(30÷60) minutes ¹
Complete drying time		(72÷96) hours ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



ELASTIGUM ST

Multi-purpose bituminous waterproofing/sealing agent

Description: Multi-purpose thixotropic waterproofing product, formulated with bitumen in aqueous emulsion, selected elastomeric resins and special additives.

- Advantages:**
- Good elasticity.
 - Waterproofs and protects against weathering and UV rays.
 - Resistant to the corrosive action of many acids.
 - Easy cold application.
 - Resistant to standing water.
 - Perfect adhesion on different materials.
 - Compatible with cement-based adhesives.
 - Resistant to aging.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.
 - Does not crack at low temperatures and does not drip at high temperatures.

- Applications:** Elastigum ST is used for:
- As a waterproof liquid sheath where it is difficult to apply polymer-bitumen membranes and shingles and to use a flame, both vertically and horizontally.
 - To waterproof foundation retaining walls.
 - To waterproof bathrooms, showers, and saunas.
 - To seal and finish roof waterproofing.
 - Cold bonding of polymer-bitumen membranes in the new waterproofing of surfaces made of concrete or wood, replacing traditional torch-applied bonding.
 - For bonding insulation panels.
 - For rapid localised repairs.
 - Restore the waterproofing of balconies and terraces without demolishing the old flooring.
 - Coat and waterproof concrete balconies, before gluing the stoneware or clinker tiles where the solution with polymer-bitumen membranes is not feasible.
 - Create a waterproofing and bonding base for the subsequent bonding of tiles with the appropriate cement-based adhesives (category C according to EN 12004).
 - Diluted by 50%, it can be used as an anti-dust primer and in any case, it already creates a waterproof surface on which to apply one or more layers of product.

Excellent adhesion on the following surfaces:

- polymer-bitumen membranes
- concrete
- metal surfaces of various kinds (pipes, gutters, tanks).
- fibre-cement
- plasterboard
- wood
- ceramic floors
- glass

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Before applying, it is advisable to check the solidity and efficiency of the water run-off points of the surface to be waterproofed.
 - It can also be applied to damp surfaces as long as there is no standing water.

- Application:**
- Mix before use.
 - Apply by roller, brush, spray, broom, spatula or notched rakes.
 - Generally apply two coats. To facilitate application on large surfaces, we recommend diluting up to a maximum of 10% with water. Apply the second coat wet on wet if the first coat is reinforced or once the first is completely dry, after 24/48 hours, depending on the ambient conditions and the porosity of the surface.
 - On surfaces larger than 10 m² or stressed supports, we recommend reinforcing Elastigum ST with suitable non-woven polyester fabric reinforcement, embedded in the still fresh first coat.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

- Consumption:**
- The consumption of the product depends on the surface and the desired thickness but usually varies between 1.2 and 1.8 kg/m² overall. On average, to obtain a 1 mm dry film, the quantity of product used will be approximately 1.7 kg/m².
 - Applying non-woven polyester reinforcement, the total consumption is 1.8-2.2 kg/m².
 - For spot gluing of insulation panels, consumption is approx. 400-700 g/m².

- Warnings:**
- We recommend applying the product at ambient temperatures no lower than +5 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat.
 - We recommend applying the product on surfaces not subject to standing water.
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Application on slabs or particularly damp supports should include the use of suitable vents to prevent bubbles from forming by eliminating the condensation that forms under the waterproof membrane.
 - Never exceed the recommended quantity for each layer to avoid blocking the evaporation of water contained in the bituminous liquid product, which would otherwise get trapped under the dried film.
 - Temperatures above 35 °C adversely affect the workability of the product by causing the surface film to dry too quickly.
 - When waterproofing foundations with Elastigum ST, these must be further covered with suitable protections to prevent the sheath from being cut during backfilling.
 - It can be stepped on in case of occasional maintenance.
 - To increase the life of Elastigum ST it is always advisable to paint with suitable protective paints.
 - Do not use on surfaces subject to rising damp or strong water pressure.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:**
- 310 ml plastic cartridges (boxes of 24 pieces).
 - 1, 5, 10, and 20 kg metal or plastic pails.
(Pails with attached internal resealable nylon bag available on request).
 - 200 kg metal drums.

ELASTIGUM ST

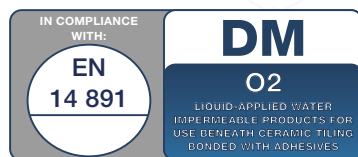
Multi-purpose bituminous waterproofing/sealing agent

- Other versions:**
- Elastigum ST Antiradice is available; it is a version of the product with the addition of special additives that make it ideal for waterproofing surfaces in contact with plants, flowers, and vegetation in general.
 - Elastigum FR is available; it is a version of the bituminous liquid sheath with the addition of fibres, which increase mechanical resistance, and which do not require the use of a reinforcing layer.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colour		Black (after drying)
Shelf life in closed original packaging		12 months
Solid content (<i>m/m at 130 °C</i>)	EN ISO 3251	(53÷59)%
Brookfield viscosity (<i>at 20 °C, spindle 6; 10 rpm</i>)	EN ISO 3219	(70,000±14,000)cP
Density (<i>at 20 °C</i>)	EN ISO 2811-1	(1.21±0.04)kg/L
pH (<i>at 20 °C</i>)		8.3-9.0
Flexibility at low temperatures	EN 15813	-30°C
Dimensional stability at high temperature	EN 15818	+150°C
Tack-free time		4 hours
Drying time for recoating		24÷48 hours ¹
Operating temperature		-30°C ÷ +80°C
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS - PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² .h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbcency of surfaces.



PERFORMANCE PROPERTIES - EN 14891 - LIQUID APPLIED WATER IMPERMEABLE PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES -		
PERFORMANCE PROPERTIES	EN 14891 REQUIREMENTS	PRODUCT PERFORMANCE
Initial Tensile Adhesion Strength	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after water contact	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after heat ageing	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after freeze-thaw cycle	> 0.5 N/mm ²	> 0.5 N/mm ²
Tensile adhesion strength after contact with chlorinated water	> 0.5 N/mm ²	> 0.5 N/mm ²
Water impermeability	No penetration	Impermeable
Crack Bridging Ability (at -20 °C)	> 0.75 mm	> 0.75 mm
CLASSIFICATION ACCORDING TO UNI EN 14891	CLASS DM O2	Impermeable product applied in liquid dispersion with improved crack bridging ability at low temperatures (-20 °C)



ELASTIGUM ST

BITUMCOL

Fibre-reinforced bituminous adhesive for insulation panels

Description: Solvent-based fibre-reinforced adhesive, formulated with bitumen, selected elastomeric resins and special additives.

- Advantages:**
- It is applied cold.
 - Ready for use and easy to apply.
 - Use of extruders is not required.

Applications: Suitable for gluing insulation panels made of polystyrene, polyurethane, perlite, mineral or cellulose fibres on concrete, cement, metal, wood and polymer-bitumen membranes.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry. Dusty surfaces must be treated beforehand with a coat of bituminous primer.
 - Best applied at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- The product is ready to use; during winter heat it up by water bath or use Bitumcol INV.
 - Bitumcol can be applied over the entire surface, in spots or strips by spatula.
 - In case of high temperatures, we recommended first spreading the product in the hot insole to facilitate the evaporation of any aggressive solvents; then wait at least half an hour before applying the insulation panels.
 - In order to optimise the adhesion of the product, it is advisable to wait for the insulation panels to be installed when the product is dust-free, i.e., when most of the solvent has evaporated. However, it is preferable to carry out preliminary adhesion tests.
 - Use common synthetic or nitrous thinners or white spirit to clean tools.

- Consumption:**
- When laying in strips, these should be approximately 4 cm wide and a minimum of 4 per m² for a consumption of 650-850 g/m² depending on the type of surface.
 - When laying in spots, around 50-80 g of Bitumcol will be needed for each spot, distributing 10 spots per m².
 - Near the perimeter of emerging structures and of reliefs in general, the number of strips or points will be doubled for an area approximately 1 m wide; furthermore, even in the case of spreading over the entire surface, the bonding is integrated with mechanical fasteners.

- Warnings:**
- It is important that application for roofing is performed up to a maximum slope of 5%. For greater slopes, we recommend Bitumcol Plus and the bonding must be supplemented with mechanical fasteners.
 - Do not use indoors or in non-ventilated premises.
 - Do not mix with cement or water.
 - We recommend using breather vents on large horizontal walls in the case of application of the product between the bituminous membrane and insulation panels.
 - We recommend strictly using the indicated quantities, as excessive use may attack the surface of the polystyrene insulation and compromise panel adhesion.
 - In case of application of the product between two waterproof surfaces (e.g., polymer-bitumen membrane and insulation panel or between two insulation panels), the

- Warnings:**
- complete drying time is extended (it can be as long as a few weeks) and depends on various factors such as temperature and humidity, the quantity of product applied, and the waiting time before covering.
 - Do not apply to wet or very damp surfaces.
 - In case of presence in the original packaging of a bottom layer, mix the product until completely uniform, before using it.
 - Do not use on surfaces subject to rising damp or strong water pressure.
 - Do not use for surfaces or containers of edible liquids, for drinking water or that may come into contact with solvents or mineral oils.
 - Store in tightly sealed original packaging.
 - Flammable product.
 - Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal pails.

Other versions: Bitumcol INV is available; it is a version of the product with lower viscosity, which favours use in colder climates.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Black
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(84÷92)%
Brookfield viscosity (at 25 °C, spindle 7, 5 rpm)	EN ISO 3219	(4,600±900) P
Density (at 20 °C)	EN ISO 2811-1	(1,42÷1,50) kg/L
Dust-free time		(30÷60) minutes ¹
Complete drying time ²		(24÷48) hours ¹
Closed-cup flash point	ASTM D3828-87	> +40 °C

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptivity of surfaces.
² Value to be understood in the case of application of the product on a porous, non-waterproof surface (e.g., cement, concrete, wood).

BITOGLUE 358

Bituminous adhesive for insulation panels

Description: Solvent-based adhesive paste, formulated with bitumen, selected synthetic resins and special additives.

- Advantages:**
- It is applied cold.
 - Ready for use.
 - Easy to apply.
 - Use of extruders is not required.
 - Fast drying.
 - Resistant to water and most saline and alkaline solutions.

Applications: Suitable for cold bonding of insulation panels (except for EPS and XPS panels), polyurethane, perlite and cellulose and mineral fibres on concrete, cement, metal, wood and polymer-bitumen membranes.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry. Dusty surfaces must be treated beforehand with a coat of bituminous primer.
 - Apply at temperatures between 0 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- The product is ready for use.
 - Bitoglue 358 can be applied over the entire surface, in spots or strips with a spatula.
 - In case of high temperatures, we recommended first spreading the product in the hot insole to facilitate the evaporation of any aggressive solvents; then wait at least 10 minutes after application on the surface before coupling with the insulation panels.
 - Use common synthetic thinners to clean tools.

- Consumption:**
- When laying in strips, these should be approximately 4 cm wide and a minimum of 4 per m² for a consumption of 650-850 g/m² depending on the type of surface.
 - When laying in points, around 50-80 g of Bitoglue 358 will be needed for each spot, distributing 10 per m².
 - Near the perimeter of emerging structures and of reliefs in general, the number of strips or spots will be doubled for an area approximately 1 m wide; furthermore, even in the case of spreading over the entire surface, the bonding is supplemented with mechanical fasteners.

- Warnings:**
- It is important that application for roofing is performed up to a maximum slope of 5%. For higher slopes, bonding must be integrated with mechanical fasteners.
 - Do not use indoors or in non-ventilated premises.
 - Do not mix with cement or water.
 - We recommend strictly using the indicated quantities, as excessive use may attack the surface of the insulation and compromise panel adhesion.
 - It is not recommended to use the product for gluing insulation panels on insulation panels.
 - Store in tightly sealed original packaging.
 - Flammable product

- Warnings:**
- Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Black
Shelf life in closed original packaging		24 months
Solid content (<i>m/m at 130 °C</i>)	EN ISO 3251	(85÷95)%
Brookfield viscosity (<i>at 15 °C, spindle 7, 5 rpm</i>)	EN ISO 3219	(2,400÷3,600) P
Density (<i>at 20 °C</i>)	EN ISO 2811-1	(1.26÷1.34) kg/L
Drying time		30 ÷ 60 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorpency of surfaces.



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BITUMCOL PLUS

Fibre-reinforced bituminous adhesive for metal surfaces

Description: Solvent-based adhesive and sealant, formulated with bitumen, selected elastomeric resins, fibres and special additives.

- Advantages:**
- It is applied cold.
 - Ready for use and easy to apply.
 - High elasticity and resistance.
 - Instant waterproofing.
 - Weather resistant.
 - Quick and safe adhesion.
 - Resistant to low temperatures.
 - Use of extruders is not required.
 - Excellent resistance to UV rays.

- Applications:** Bitumcol Plus is suitable for:
- fixing metallic coatings such as titanium zinc, copper, aluminium and stainless steel on reinforced concrete, masonry, natural and artificial stone, plywood, fibrous concrete or slate, covering sills, walls, attics, facades and roofs.
 - applying insulation panels (also in expanded polystyrene) intended for use in construction on concrete and polymer-bitumen membranes on surfaces with slopes greater than 5%.
 - filling joints, cracks and pores.
 - sealing chimney terminations, piping, and vents on roofs.
 - sealing vertical parts of waterproofing cover.
 - waterproofing roofs, piping and ventilation ducts, drain pipes, dome skylights, sheet metal claddings, foundations, walls, terraces, balconies, etc.
 - Adheres to: stone, masonry, concrete, marble, brick, glass, corrugated asbestos, bituminous membranes and roofing felt, tar, metal, sheet metal such as copper, zinc, lead, aluminium as well as wood and rigid PVC.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry. Dusty surfaces must be treated beforehand with a coat of bituminous primer.
 - Apply at temperatures between 0 °C and +45 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- The product is ready to use; during winter it may be heated up by water bath.
 - Bitumcol Plus is ready to use and can be applied by spatula, spreading the material evenly over the surface in one direction.
 - When laying insulation panels, these can be laid immediately on Bitumcol Plus and in any case within 30-60 minutes from its application.
 - Use common synthetic or nitro thinners, or white spirit to clean tools.

Consumption: Consumption depends on the porosity of the surface and corresponds to approximately 2 kg/m².

- Warnings:**
- Tests do not show any product drips up to 100 °C. For vertical application or slopes > 30%, a mechanical fastener is always recommended, considering also the weight of the panel.
 - In case of application of the product between two waterproof surfaces (e.g., polymer-bitumen membrane and insulation panel or between two insulation panels), the complete drying time is extended (it can be as long as a few weeks) and depends on various factors such as ambient temperature and humidity, the quantity of product applied, and the waiting time before covering, etc.
 - Do not use indoors or in non-ventilated premises.
 - Do not apply to wet or very damp surfaces.
 - In case of presence in the original packaging of a bottom layer, mix the product until completely uniform, before using it.
 - Do not use on surfaces subject to rising damp or strong water pressure.
 - Do not use for surfaces or containers of edible liquids, for drinking water or that may come into contact with solvents or mineral oils.
 - Do not mix with cement or water.
 - Store in tightly sealed original packaging.
 - Flammable product
 - Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 310 ml cartridges.
 - 4, 5, 11 kg metal pails.
 - 250 kg metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Black
Shelf life in closed original packaging		36 months
Solid content (m/m at 130 °C)	EN ISO 3251	(82÷90)%
Brookfield viscosity (at 28 °C, spindle 7; 2 rpm)	EN ISO 3219	(18,000±3,600) P
Density (at 20 °C)	EN ISO 2811-1	(1.45÷1.55) kg/L
Drying time		(30÷60) minutes ¹
Setting time (hard)		48 hours ¹
Closed-cup flash point	ASTM D3828-87	> +35 °C

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptivity of surfaces.

BITOGLUE BASE

Adhesive for bituminous membranes

Description: Fibre-reinforced solvent-based adhesive, formulated with bitumen, selected elastomeric resins and special additives.

- Advantages:**
- Perfect, total adhesion.
 - It is applied cold.
 - Ready for use.
 - No dripping.
 - Resistant to weathering and UV rays.
 - Reduces the negative effects of any cracks in polymer bitumen membranes.
 - Remains elastic and reduces thermal shock. It also favours small settling movements of the building or of the waterproof membrane.
 - Does not alter the properties of the membrane unlike hot application.
 - Allows you to make adjustments during application.
 - Can be applied on a damp surface.
 - Levels any irregularities on the surface.
 - Its application forms an additional waterproof layer.
 - Greater safety thanks to the use of cold adhesive; no hot-melt bitumen or burner is used.

- Applications:**
- Recommended for cold gluing of polymer-bitumen membranes on old polymer-bitumen surfaces as well as new waterproofing of surfaces made of concrete, wood, metal, or glass wool, rock wool and polyurethane insulation panels without any need for traditional hot-melt gluing.
 - Concrete and wall repairs.
 - Used to join surfaces in galvanised sheet metal or aluminium or other metal supports.
 - It is recommended where use of open flames is generally prohibited and in cases where the application of polymer-bitumen membranes on flammable surfaces (e.g., wooden roofs) prevents or discourages the use of flames.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and sufficiently dry.
 - Best applied at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Bitoglue Base is ready for use and can be smoothed by raket.
 - In case of ambient temperatures below +10°C, we recommend heating the product by water bath, or using the more specific Bitoglue Base INV.
 - Depending on environment temperature, we recommend waiting 10-20 minutes before gluing the bitumen membrane (waiting time decreases at high temperatures and on highly absorbent supports).
 - Use common synthetic thinners to clean tools.

Consumption: Consumption of the Bitoglue Base adhesive is approximately 1-1.2 kg/m², depending on the type and roughness of the surface.

- Warnings:**
- For applications on roofs with slopes greater than 5%, we recommend supplementing the bonding with mechanical fasteners.
 - Do not use indoors or in non-ventilated premises.
 - Do not mix with cement or water.
 - Store in tightly sealed original packaging.
 - Flammable product
 - Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 5, 10, 20, and 25 kg metal pails.
 - 250 kg metal drums.

Other versions: Bitoglue Base INV is also available; it is a version of the product with lower viscosity, which favours use in colder climates.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Black
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(78÷86)%
Brookfield viscosity (at 25 °C, spindle 5; 5 rpm)	EN ISO 3219	(40,000±8,000) cP
Density (at 20 °C)	EN ISO 2811-1	(1.31÷1.39) kg/L
Closed-cup flash point	ASTM D3828-87	> +40 °C



BITOGLUE TK

Thixotropic adhesive and sealant for roof tiles and bituminous membranes

Description: Solvent-based thixotropic adhesive, formulated with bitumen, selected elastomeric resins and special additives.

- Advantages:**
- It is applied cold.
 - Ready for use and easy to apply.
 - High elasticity and resistance.
 - Instant waterproofing.
 - Also adheres to damp surfaces.
 - Resistant to weathering and UV rays.
 - Quick and safe adhesion.
 - Resistant to high and low temperatures.
 - Adheres to bitumen, concrete, wood, metal, glass and plastic.

- Applications:** It is used to:
- glue shingles.
 - seal chimneys, skylights, instantly waterproofed joints, TPE aerators, flashings and antennas.
 - cold-glue overlapping parts of polymer-bitumen membranes and of the vertical parts of the roof.
 - repair damaged polymer-bitumen membranes.
 - waterproof joints and gaps right after their application.
 - cold-glue bitumen membranes and insulating panels (do not apply on polystyrene-based insulation panels).

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and sufficiently dry.
 - Apply at temperatures between 0 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Bitoglue TK is ready for use. Apply by spatula or, if packed in plastic cartridges, use specific manual or mechanic guns.
 - Any swelling that may have occurred on old polymer-bitumen membranes can be eliminated by making cross-cuts in the membranes and then gluing the four flaps back together, first below and then above over the entire surface concerned with Bitoglue TK.
 - Use common synthetic thinners to clean tools.

- Consumption:**
- The indicative consumption of the product as an adhesive is approximately 0.8 kg/m².
 - The product has a yield (using a 280 ml cartridge, with a spout opening of ϕ 5mm) equal to approximately 9.5 linear metres.

- Warnings:**
- Do not use indoors or in non-ventilated premises.
 - Do not mix with cement or water.
 - Store in tightly sealed original packaging.
 - Flammable product.
 - Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 280, 310 ml plastic cartridges; 1, 5, 10, and 25 kg metal pails.
 - 250 kg metal drums.

Other versions: Bitoglue Universal is available, a version of the product with a lower viscosity to facilitate application in specific uses.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Black
Shelf life in closed original packaging		24 months
Solid content (<i>m/m at 130 °C</i>)	EN ISO 3251	(85÷95)%
Brookfield viscosity (<i>at 25 °C, spindle 7; 2 rpm</i>)	EN ISO 3219	(15,000±3,000) P
Density (<i>at 20 °C</i>)	EN ISO 2811-1	(1,36±1,44) kg/L
Slump test (<i>at 5 minutes, 20 °C</i>)		10 mm
Closed-cup flash point	ASTM D3828-87	> +30 °C
Shore hardness A		10-15
Operating temperature		(-30 +80)°C



BITOGLUE FBA-70

Multi-purpose fibre-reinforced bituminous sealant

Description: Solvent-based, fiber-reinforced thixotropic sealant and adhesive, formulated with bitumen, selected elastomeric resins and special additives.

- Advantages:**
- It is applied cold.
 - Ready for use and easy to apply.
 - High elasticity and resistance.
 - Instant waterproofing.
 - Also adheres to damp surfaces.
 - Weather resistant.
 - Quick and safe adhesion.
 - Resistant to low temperatures.
 - Use of extruders not required.
 - Excellent resistance to UV rays.

- Applications:** Suitable for:
- filling joints, cracks and pores.
 - sealing chimney terminations, piping, and vents on roofs.
 - sealing vertical parts of waterproofing cover.
 - gluing bitumen membranes and polyurethane-based insulation panels (do not apply on polystyrene-based insulation panels).
 - waterproofing roofs, piping and ventilation ducts, drain pipes, dome skylights, sheet metal claddings, foundations, walls, terraces, balconies, etc.
 - use on wet surfaces.
 - Adheres to: stone, masonry, concrete, marble, brick, glass, corrugated asbestos, bituminous membranes and roofing felt, tar, metal, sheet metal such as copper, zinc, lead, aluminium as well as wood and rigid PVC.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and sufficiently dry.
 - Apply at temperatures between 0 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- Bitoglue FBA-70 is ready for use and is applied by spatula or, if packed in cartridges, by specific guns.
 - Use common synthetic thinners to clean tools.

- Consumption:**
- Do not use indoors or in non-ventilated premises.
 - Do not mix with cement or water.
 - Do not use on polystyrene-based insulation panels.
 - It is not recommended to use the product for gluing insulation panels on insulation panels.
 - Store in tightly sealed original packaging.
 - Flammable product
 - Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Warnings: 280 ml cartridges; 1, 5, 10, 20 and 25 kg metal pails.

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BUILDING INDUSTRY

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Black
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(83÷92)%
Brookfield viscosity (at 25 °C, spindle 7, 2 rpm)	EN ISO 3219	(7,500±1,500) P
Density (at 20 °C)	EN ISO 2811-1	(1.24÷1.32) kg/L
Drying time		30÷60 minutes ¹
Time for complete drying (setting time)		48 hours ¹
Closed-cup flash point	ASTM D3828-87	> +40 °C

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptivity of surfaces.

BITOGLUE FX

Fibre-reinforced bituminous adhesive and sealant

Description: Fibre-reinforced solvent-based thixotropic adhesive and sealant, formulated with bitumen, selected elastomeric resins and special additives.

- Advantages:**
- It is applied cold.
 - Ready for use.
 - No dripping.
 - Specifically designed for joining and sealing vertical surfaces.
 - Resistant to weathering and UV rays.
 - Adheres to the most common building materials even if wet.
 - After hardening, it has the appearance of an easily deformable plastic mass even if applied vertically.
 - It can be exposed to rain even immediately after laying as it is not washed away or dissolved in water.
 - Resistant to acid and alkaline solutions.

- Applications:**
- It adheres to polymer-bitumen membranes, shingles, bricks, concrete, wood, metal and most plastic materials.
 - Gluing any type of insulation panel.
 - Repairing damaged polymer-bitumen membranes and sealing membranes to vertical concrete surfaces.
 - Gluing bitumen-based shingles and insulation packages.
 - Instant sealing of construction gaps on roofs and coverings such as chimney pots, skylights, downspouts, flashings, ventilation ducts, antennas and gutters.
 - Gluing overlapping polymer-bitumen membranes to obtain perfect cold bonding between them.
 - For collars around through pipes.
 - It can be used to fill joints, cracks and crevices of any size.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and sufficiently dry.
 - On damp or wet surfaces, remove any standing water and apply the product by compressing adequately.
 - Apply at temperatures between 0°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.
 - In the case of localised repairs of old bituminous membranes, eliminate any swelling by making cross-cuts in the membranes and then gluing the four flaps back together, first under and then over the surface concerned.

- Application:**
- The product is ready to use and can be smoothed or shaped with spatula or other heated metal tools to favour the aesthetic finishing of the expansion joint.
 - Apply the product in cartridge by mechanic or manual gun.
 - For bonding insulation panels, Bitoglue FX can be applied in spots or strips with a trowel or spatula.
 - Flexible profiles should be covered with two layers reinforced with glass fibre veil.
 - Use common synthetic thinners to clean tools.

- Consumption:**
- When used for bonding polymer-bitumen membranes, yield is approximately 1 kg per square metre.
 - When laying in strips, these should be approximately 4 cm wide and a minimum of 4 per m² for a consumption of 650-850 g/m² depending on the type of surface. When applying in spots, around 50-80 g of Bitoglue FX will be needed for each spot, distributing 10 spots per m². Near the perimeter of emerging bodies and reliefs in general, the number of spots and strips will be doubled for an area 1 metre wide. In addition, the bonding should be supplemented with mechanical fasteners.

- Warnings:**
- Not suitable for continuous or rapid compression, traction and shear stresses.
 - Not suitable to be walked on or for vehicle transit.
 - Do not use indoors or in non-ventilated premises.
 - Do not mix with cement or water.
 - Store in tightly sealed original packaging.
 - Flammable product
 - Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 280, 310 ml cartridges.
 - 1, 5, 10, and 25 kg metal pails.
 - 250 kg metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Black
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(82±89)%
Brookfield viscosity (at 25 °C, spindle 7, 5 rpm)	EN ISO 3219	(4,000±800) P
Density (at 20 °C)	EN ISO 2811-1	(1.25÷1.33) kg/L
Application temperature		(5÷35)°C
Operating temperature		(-35÷110)°C
Closed-cup flash point	ASTM D3828-87	> +40 °C

BITOGLUE WAY PLUS

Bituminous adhesive for road signs

Description: Highly thixotropic adhesive formulated with a fast drying solvent base, bitumen, selected elastomeric resins and special additives.

- Advantages:**
- Excellent adhesion.
 - It is applied cold.
 - Ready for use.
 - No dripping.
 - Waterproofing.
 - Can also be used on vertical surfaces.

- Applications:** Bitogluce Way Plus is used to glue and anchor:
- Rubber items
 - Semi-rigid PVC
 - Flexible Lane Delineator
 - Luminous road markers (road studs)
 - Lane dividers
 - Traffic cones
- On road surfaces, asphalt, bituminous conglomerates, concrete, fibre cement, metal surfaces and wood.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.
 - On vulcanised rubber, the best adhesion is achieved by sanding the surface beforehand.

- Application:**
- Bitogluce Way Plus is ready for use. Apply by spatula.
 - Drying times depend on the type of support, the thickness of the layer produced and the ambient temperature.
 - Use common synthetic thinners to clean tools.

- Warnings:**
- Not suitable for continuous or rapid compression, traction and shear stresses.
 - Not suitable to be walked on or for vehicle transit.
 - Do not use indoors or in non-ventilated premises.
 - Do not mix with cement or water.
 - Store in tightly sealed original packaging at a temperature no lower than +5 °C.
 - Flammable product
 - Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 4, 5, 10, and 25 kg metal pails.
 - 250 kg metal drums.



Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colour		Black
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(82±90)%
Brookfield viscosity (at 25 °C, spindle 7, 2 rpm)	EN ISO 3219	(2,000±300) P
Density (at 20 °C)	EN ISO 2811-1	(1.08±1.14) kg/L
Closed-cup flash point	ASTM D3828-87	> +30 °C
Flexibility at low temperatures	EN 15813	-20°C
Operating temperature		(-10 ÷ 35)°C
Dust-free time		15±30 minutes ¹
Setting time		6±12 hours ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptivity of surfaces.

SIGILL PLAST

Bituminous sealant for road surfaces

Description: Solvent-based elastoplastic filler sealant formulated with bitumen, selected synthetic resins and special additives.

- Advantages:**
- It is applied cold.
 - Ready for use.
 - No dripping.
 - Easy to apply.
 - High thixotropy: it is easy to apply both horizontally and vertically.
 - Waterproofing: blocks the infiltration of water into road surfaces.
 - Elastic sealing: reduces phenomena of localised settlement, lifting, deformation due to freezing and thawing and the pumping effect due to vehicular traffic.
 - Resistant to acid and alkaline solutions.

- Applications:**
- Cracks, lesions and joints in asphalt and road concrete.
 - Filling of spaces between porphyry blocks in urban pavements.
 - Instant sealing of construction gaps on roofs and coverings such as chimney pots, skylights, downspouts, flashings, ventilation ducts, antennas and gutters.

Surface preparation: Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.

- Application:**
- It is ready for use and must be spread on the joints or channels with a spatula or, if packaged in cartridges, using special guns.
 - If in cartridge, apply the mastic sealing the ends of the joint without trapping air between the mastic and the bottom of the joint.
 - Use common synthetic thinners to clean tools.

- Warnings:**
- Not suitable for continuous or rapid compression, traction and shear stresses.
 - Do not use indoors or in non-ventilated premises.
 - Do not mix with cement or water.
 - Store in tightly sealed original packaging.
 - Flammable product
 - Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 310 ml cartridges (boxes of 24/25 pieces).
 - 1, 5, 10, and 25 kg metal pails.
 - 250 kg metal drums.



Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colour		Black
Shelf life in closed original packaging		24÷36 months
Solid content (m/m at 130 °C)	EN ISO 3251	(79÷87)%
Brookfield viscosity (at 25 °C, spindle 7, 10 rpm)	EN ISO 3219	(5,500±1,100)P
Density (at 20 °C)	EN ISO 2811-1	(1.36÷1.44)kg/L
Closed-cup flash point	ASTM D3828-87	> +30 °C
Operating temperature		(-10 ÷ 35)°C
Drying time		60 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptivity of surfaces.

SIGILL GIUNT

Bituminous sealant for concrete joints

Description: Solvent-based elastoplastic filler sealant formulated with bitumen, selected synthetic resins and special additives.

Advantages:

- It is applied cold.
- Ready for use.
- No dripping.
- Easy to apply.

Applications:

- Sigill Giunt is recommended for the formation of joints in irrigation channels against the ground and for joints between concrete structures, terraces and non-walkable floors.
- It is recommended for connecting bituminous sheaths to each other with flashings.

Surface preparation:

- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and sufficiently dry.
- In order to obtain the best result, it is advisable to treat the surface with a coat of bituminous primer.

Application:

- Sigill Giunt is ready for use and should be spread on the joints or channels with a spatula or a special extruder combined with a gun.
- It can be smoothed or shaped with spatulas or other hot metal tools, to facilitate the aesthetic finish of the joint.
- Drying times vary according to the type of support, the thickness of the layer made and ambient temperature; on average, hardening is obtained after 3-4 days from application, complete drying after 30-40 days. Since the setting and drying of Sigill Giunt causes a contraction in volume, for joints larger than 1 cm x 1 cm it is advisable to apply the product in several coats.
- Use common synthetic thinners to clean tools.

Consumption: Consumption is 150 g per linear metre for a 1 cm x 1 cm joint.

Warnings:

- Not suitable for continuous or rapid compression, traction and shear stresses.
- Not suitable to be walked on or for vehicle transit.
- Do not use indoors or in non-ventilated premises.
- Do not mix with cement or water.
- Store in tightly sealed original packaging.
- Flammable product
- Do not expose to heat sources, open flames or other sources of ignition.
- Comply with the information on the safety data sheet.

Packaging:

- 5, 10, 25 kg metal pails.
- 250 kg metal drums.



Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Black
Shelf life in closed original packaging		24 months
Solid content <i>(m/m at 130 °C)</i>	EN ISO 3251	(70÷78)%
Brookfield viscosity <i>(at 35 °C, spindle 7, 10 rpm)</i>	EN ISO 3219	(3,400±600)P
Density <i>(at 20 °C)</i>	EN ISO 2811-1	(1.19÷1.27)kg/L
Closed-cup flash point	ASTM D3828-87	> +40 °C
Operating temperature		(-10 ÷ 60)°C

ELASTIDEN UP

Bituminous sealant spray

Description: Solvent-based waterproofing sealant/protective coating, formulated with bitumen, selected elastomeric resins and special additives, packaged in a spray can.

- Advantages:**
- Long-lasting protective action.
 - High flexibility.
 - Fast drying.
 - Resistant to weathering and salt corrosion.
 - Seals cracks and stops leaks.
 - Ready for use.
 - Easy to apply.

- Applications:**
- Suitable for any type of surface, including metal, concrete, plastic and wood.
 - Adheres to any shape.
 - Seals leaks in roofs, gutters, roof tiles and terraces, skylights, PVC or metal drain pipes.
 - To coat and protect surfaces of bridges, roofs, pillars, steel structures, tanks, agricultural machinery chassis, car bodies, etc.
 - Seals details during the installation of fireplaces, solar panels, satellite dishes and antennas.
 - Protection of port and railway materials.

Surface preparation: Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils; carefully clean the surfaces, which must be sound and dry.

- Application:**
- Shake the can well until you can hear the steel ball moving inside.
 - Spray intermittently to maintain a uniform jet.
 - Drying time depends on the thickness of the applied layer, the type of surface and ambient conditions.
 - Once the application is finished, turn over the can and spray for 1-2 seconds so that the nozzle remains clean and does not get blocked.

Consumption: One 500 ml Elastiden Up spray can covers an area of about 4 m² depending on the desired layer thickness.

- Warnings:**
- Apply at ambient temperatures between +5 °C and +30 °C.
 - Do not use indoors or in non-ventilated premises.
 - Store in tightly sealed original packaging.
 - Flammable product.
 - Do not expose to direct sunlight, temperatures higher than 30 °C, heat sources, open flames or other sources of ignition.
 - Pressurized container: may explode if heated.
 - Do not pierce or burn, even after use.
 - Comply with the information on the safety data sheet.

Packaging: 500 ml spray cans in boxes of 6/12/24 pcs.



Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Black
Shelf life in closed original packaging		24 months
Drying time		60÷240 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptivity of surfaces.



**WE PUT
OUR HEART
INTO THE
PRODUCTS**

COMPLEMENTARY PRODUCTS

Special product and additives used in the building industry with specific function of:

- Transparent or coloured waterproofing agent; water-repellent for absorbent mineral substrates;
- Chemical barrier for walls to prevent damp rising;
- Consolidating transparent water-repellent protective product for walls and natural stones;
- Transparent impregnating anti-saline product;
- Solid oxidised bitumen;
- Bituminous Emulsion;
- Multi-Purpose thinner;
- Liquid additive for mortars and expandable micro-concretes;
- Reinforcing non-woven fabric for concrete structures;
- Road Marking paints.

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■ water based products

■ solvent based products

■ solid products



CHEMICALS FOR THE BUILDING INDUSTRY



IMPERDRY WATER

Transparent water-repellent waterproofing product for absorbent mineral surfaces

Description: Colourless protective waterproofing and water-repellent varnish with high penetration formulated with water-repellent resins in aqueous emulsion and special additives.

- Advantages:**
- Water repellent: It creates a barrier that blocks infiltrations and humidity stains, without resorting to radical renovations and thus maintaining the natural breathability and colour of the surface unaltered.
 - Fast water-repellent effect.
 - Highly resistant and effective pearlescent effect.
 - Dries without leaving a sticky surface.
 - Water-based product compatible with the environment.
 - Excellent resistance to alkalis.
 - Restores the existing floor without altering it, does not form surface films.
 - Invisible waterproofing.
 - Allows the natural transpiration of surfaces does not block the natural porosity.
 - Prevents the transport of hygroscopic salts.
 - Excellent light stability.
 - Allows passage and foot traffic on terraces without deteriorating.
 - Avoids the need to demolish tiled floors when this is too labour-intensive. - Enables treatment of solvent sensitive coatings.

Applications: Surfaces of terraces, balconies, external facades covered with absorbent mineral materials (sandstone, tuff, trachyte, terracotta, etc.), plaster, concrete.

Surface preparation:

- Before applying, make sure that the surfaces are free from dirt, dry and perfectly degreased from previously applied substances such as waxes or the like. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
- It is advisable to seal any cracks and grout the joints between tiles where necessary.

Application:

- The product is ready to use. For an ideal coverage it is preferable to apply two coats to be applied wet on wet.
- Apply Imperdry Water by brush or spray, taking care to clean the product not absorbed and in excess after a maximum of 30 minutes from its application, using a dry and clean cloth.
- Do not apply on non-absorbent materials, on marble, reinforced concrete for bridges and roads and on plaster.
- We recommend not to apply at temperatures below +10 °C or above +35 °C.
- Drying time varies with temperature and the porosity of the material;
- generally it is 1 hour.
- Equipment can be washed with water immediately after use.

Consumption: The yield of Imperdry Water depends on the porosity and absorption of the material to be treated and varies between 3 and 8 m²/L. It is advisable to check the absorption by the surface by carrying out a preliminary test.

Warnings:

- Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
- Protect from frost, do not expose the packages to temperatures below +5 °C.
- For further information, request the safety data sheet.

Packaging: 1, 5, 10, and 20 L plastic containers; 200 L metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Milky white (colourless when dry)
Shelf life in closed original packaging		12 months
Density (at 20 °C)	EN ISO 2811-1	(0.97 ÷ 1.03) kg/L
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	9÷12 seconds
Drying time		30 ÷ 60 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (H HYDROPHOBIC IMPREGNATION - PRINCIPLES: PI-MC-IR)		
Depth of penetration	EN 1504-2 (Schedule 3 no. 19)	Penetration: < 10 mm
		Class I
Water absorption and resistance to alkali	EN 13580	Absorption ratio compared to the untreated test cube: <7.5%
		Result: compliant
		Absorption ratio after exposure to alkali: <10%
Drying rate for hydrophobic impregnation	EN 13579	Result: compliant
		Drying rate coefficient: >30%
		Class I

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



BASIC BIT

Bituminous emulsion

Description: Bitumen in water emulsion and special additives.

- Advantages:**
- Excellent adhesion and penetration on every dry concrete surface as well as on slightly damp surfaces.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:**
- Primer to block the dustiness and porosity of concrete, allowing quick application of polymer-bitumen membranes.
 - It is applied on concrete surfaces of viaducts, bridges, foundation walls, and roofs of civil and industrial buildings before hot bonding of polymer-bitumen membranes.
 - Indicated for waterproofing works in residential areas, where the use of solvent-based products is not recommended.
 - It can also be used on metal fittings and trim as well as on wood.
 - Valid anchoring when laying bituminous liquid sheaths or polymer-bitumen membranes.

Surface preparation: Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.

- Application:**
- Apply Basic Bit with a broom, spray, roller and brush.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

- Consumption:**
- The overall average consumption is 150-250 g/m² and can vary according to the nature and degree of porosity of the surface and the desired thickness.
 - Generally, optimal drying takes place about 2-4 hours after application in the best conditions, and even after 6 hours in the presence of thick primers, cold temperatures and low-absorbent surfaces.
 - The product can be diluted up to 50% according to the intended use.

- Warnings:**
- Apply the product at ambient temperatures no lower than +5 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Apply the polymer-bitumen membranes on primer-coated concrete only when the latter is perfectly dry.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.
 - It can also be used on metal fittings and trim as well as on wood.

- Packaging:**
- 1, 5, 10, 20 and 25 kg metal or plastic pails.
 - 200 kg metal drums.
 - 1,000 kg IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Black (after drying)
Shelf life in closed original packaging		12 months
Solid content (m/m at 130 °C)	EN ISO 3251	(52÷60)%
Brookfield viscosity (at 20 °C, spindle 5; 6 rpm)	EN ISO 3219	(1,700±400) cP
Density (at 20 °C)	EN ISO 2811-1	(0.95÷1.05) kg/L
pH (at 20 °C)		10.0÷12.0



IMPRE-FIX STE

Waterproofing additive for normal-setting mortars

Description: Normal-setting water-repellent for making waterproof plasters. Impre-Fix STE is a water-repellent mass which, by significantly reducing porosity, makes it possible to obtain compact cement mortars that are highly impermeable to water, even from backpressure, thanks to specific laying technologies. The product comes as a yellow liquid, to be diluted beforehand in the mixing water.

Advantages:

- Impre-Fix STE normal-setting water repellent does not alter the normal setting times of the cement.
- It also exerts a fluidifying effect which allows for reductions in the w/c ratio with the same consistency and therefore improves the characteristics and in particular the mechanical resistance of the cement mortar.
- It helps to reduce the formation of efflorescence and mould.
- It can be applied by hand or by machine.
- It is applied inside underground structures and therefore is always accessible for any repairs.

Applications: Specific product for the preparation of cement mortars for the execution of:

- rigid waterproofing of underground structures in concrete or reinforced concrete, subject to positive and/or negative water pressures
- underground or above ground structures in brick masonry, stone masonry, concrete blocks, bricks in general.
- packaging of small cement products with high waterproofing and weather resistance characteristics.

Surface preparation: Dose Impre-Fix STE at 3% on the weight of the cement (3 kg for every 100 kg of cement or 1 kg for every 8-10 L of water) corresponding to:

- 600 g/m² on wall (thickness 25 mm).
- 850 g/m² on floor (thickness 40 mm).

Application: The structures must be perfectly stable, i.e., capable of resisting the forces caused by hydrostatic thrust without damage.

Surface preparation

- Remove any existing plaster.
- Roughen the surface by hammering the concrete with suitable chipping hammers; in the case of new castings, the roughening of the vertical walls can be carried out immediately after stripping the formwork. On the other hand, rake the slab before the concrete is completely hardened;
- Carefully clean the surface by washing with a pressurised water jet until it is completely damp.

Execution of the wall/floor joint

- The wall plaster must turn up on the horizontal plane as follows:
 - a. Spread with a broom or mop on the floor close to the vertical walls, in a 30 cm wide strip, a fluid mortar mixed with Impre-Fix STE solution and packaged with aggregates with particle size up to 3 mm and cement:inert ratio of 1:1 by volume;
 - b. Over this treatment, wet on wet, spread a layer of mortar with a plastic/fluid consistency, mixed with an Impre-Fix STE solution, mixed with aggregates with a particle size of up to 5 mm, aggregate:cement ratio of 1:2 by volume, and total thickness of 10 mm.

Application: The vertical layers of plaster must be turned up on the connection shell described above and end staggered from each other.

Execution of the plaster on walls

- c. Create a 4-5 mm thick splash cast with Impre-Fix STE fluid mortar, cement:aggregate ratio 1:1 by volume, aggregate with particle size of up to 3 mm;
 - d. when wet, create a rough coat 7-8 mm thick with Impre-Fix STE mortar, cement: aggregate ratio of 1:2.5 by volume, and aggregate with particle size of up to 5 mm;
- make a second splash cast as in point c)
 - make a second rough coat as in point d)
 - finish with a trowel with a final layer having the compositional characteristics referred to in point d).

The latter can be made in different ways depending on the desired finish:

- with a fine trowel, reducing the particle size of the aggregate up to 3 mm max.
- smoothed with a dusting of cement by adding 1/3 of fine sand to the mix (typical for internal smoothing of tanks).
- with fine trowel with gauged mortar, aggregate 0-3 mm with binder:aggregate ratio of 1:2-3, lime:cement ratio of 1:9, without the addition of Impre-Fix STE to limit the formation of condensation in rooms subject to high ambient humidity or poor ventilation.
- Total thickness of the plaster on the vertical walls of 25-30 mm. The various coats of plaster must always be performed by staggering the various layers.

Execution of the waterproof screed

- spread a mortar with the characteristics described in point a) with a broom or mop
- when wet, apply a layer of mortar with a damp earth consistency, mixed with an Impre-Fix STE solution, made with aggregates with a particle size of up to 5 mm, aggregate:cement ratio of 1:2.5 by volume, layer thickness of 35-40 mm.
- the layer must be beaten with a trowel until the mixing water emerges, always finishing it with a trowel.

Execution of the joints

In any cracks in the structure due to settling, plastic joints will be made by filling the grooves, suitably prepared and coated with waterproof mortar, with suitable polyurethane sealants. In the structural expansion joints, a suitable PVC profile must be inserted into the structure during the execution of the concrete casting. A suitable covered with Impre-Fix STE mortar will be created flush with the surface, in correspondence with the profile, and a perfect seal will subsequently be made, using suitable elastic polyurethane sealants.

Blocking cramp-irons and through pipes

In the presence of elements, such as pipes, anchors, etc., which cross and interrupt the continuity of the plaster, suitable collars are to be made with polyurethane sealants, always after preparing suitable recesses covered with waterproof mortar.

Façade cladding plaster

- make a 4-5 mm thick splash layer with Impre-Fix STE mortar, aggregate:binder ratio of 1:1 by volume, sand 0-3 mm; the binder must be composed of 70% by weight of hydraulic lime and 30% by weight of cement; for areas particularly exposed to weathering, increase the added cement up to 50%;
- while still wet, make a 7-8 mm thick rough cast with Impre-Fix STE mortar, binder:

INPRE-FIX STE

Waterproofing additive for normal-setting mortars

- Application:**
- aggregate ratio of 1:2-3 by volume, sand 0-5 mm; the binder must be composed of 85% by weight of hydraulic lime and 15% by weight of cement;
 - this is followed by a splash cast approximately 4 mm thick with Impre-Fix STE mortar, aggregate:binder ratio of 1:2-3 by volume, sand 0-3 mm; the binder must be composed only of hydraulic lime
 - the final coat carried out fresh on the splash cast is made up of normal hydraulic lime mortar, also coloured, to be finished with a fine trowel or spray, in any case without the addition of Impre-Fix STE. Binding:aggregate ratio of 1:2.5, particle size 0-3 mm.

- Warnings:**
- The execution of the mortar with the addition of Impre-Fix STE normally involves the use of an Impre-Fix STE:water solution equal to 1:8-10 by volume;
 - Cement-sand dosages are expressed in volume: a mortar dosed at 1:2 means a volume of cement to be mixed with two volumes of sand;
 - Use portland cement or recently produced pozzolanic cement dosed at 600 kg/m³ and sieved live sand with well-matched particle size of up to 5 mm, unless otherwise indicated;
 - Before starting the execution of a plaster or a screed, the concrete bed must have matured for at least 14 days;
 - Lay each layer before the previous one has completely set;
 - First plaster the walls and then coat the horizontal floor surface;
 - Repeatedly moisten the plaster or the screed for at least 10 days during the summer or in environments with excessive ventilation, in order to obtain a slow and uniform setting;
 - Use the mixtures within 3-4 hours of their preparation;
 - The absolute guarantee of impermeability can only be obtained by working on concrete or reinforced concrete underground structures, cast with the aid of formworks.
 - Plaster with Impre-Fix STE additive cannot be guaranteed if applied on: a) underground structures in concrete or reinforced concrete cast without the aid of formwork (e.g., bulkheads), above ground structures in reinforced concrete or concrete; b) tunnel vaults; c) ceilings in general.
 - When executing the screed (slash cut side finish to ensure correct overlap between the strips), treat strips 1 m wide to prevent them from being trampled on before setting;
 - The various layers on the vertical walls must end staggered to ensure absolute waterproofing of the plaster
 - In the event of long interruptions to work, the layers already poured must be cleaned, wetted and covered with a new layer of fluid mortar to ensure a good bond with the subsequent layers.
 - Consult the information at the bottom of this document.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
 - For further information, request the safety data sheet.

- Packaging:**
- 5 and 25 kg plastic cans.
 - 200 kg metal drums.
 - 1000 kg IBC.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Amber
Shelf life in closed original packaging		12 months
Density (at 20 °C)	EN ISO 2811-1	(0.97÷1.03) kg/L
pH		8.0÷8.5
Solid content (m/m at 130 °C)	EN ISO 3251	(2.6÷2.8)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	9 ÷ 13 seconds



IMPRE-FIX PL

Consolidating product for cement surfaces

Description: Silicate-based consolidating product in aqueous solution with high penetrating power, for cement surfaces.

- Advantages:**
- High penetration power.
 - Improves the cohesion of the cement structure.
 - Ready for use.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.

- Applications:** Specific product usable as:
- consolidating product for loose cement structures and/or with poor mechanical properties, even in depth.
 - consolidating product for cement screeds which tend to crumble on the surface due to lack of hydration or lack of binder.
 - dust-proof impregnating primer for cement surfaces.

Surface preparation: Make sure that loose parts, friable or non-adherent parts, paints, rust, dust, or release oils (or other substances that can prevent the necessary penetration of the product) are removed and carefully clean the surfaces which must be solid and dry.

- Application:**
- Apply to the surface to be treated using a pump or watering can and distribute it evenly with a brush, broom, or roller until absorbed.
 - Product ready for use (not dilutable).
 - It may be necessary to apply several coats. The application of the next coat is to be carried out only after complete drying of the previous coat.
 - Apply at temperatures between +5°C and +35°C.
 - Drying time varies with the quantity of product applied, with the temperature, humidity and porosity of the material, and is generally at least 24 hours.
 - Do not apply on non-absorbent materials, on marble, and on anhydrite surfaces.
 - After use, clean the tools with hot water and, if the product has dried, it is recommended to remove it mechanically.

Consumption: Consumption varies according to the porosity of the material on which the product is applied and can be on average between 0.5 and 3.0 kg/m². Apply two or more coats of product. It is advisable (especially for particularly degraded surfaces) to carry out a preliminary test on a portion of the surface to be treated, in order to determine the quantity necessary to consolidate it.

- Warnings:**
- Do not apply on wet surfaces.
 - Avoid stagnation of product on the surface (to be prevented by using sand, removing the excess once dried).
 - Protect from frost, do not expose the packages to temperatures below +5 °C.
 - For further information, request the safety data sheet.

Packaging: 20 kg plastic pails.



Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Colourless
Shelf life in closed original packaging		24 months
Density (at 20 °C)	EN ISO 2811-1	(1.15÷1.25) kg/L
pH		12
Solid content (m/m at 130 °C)	EN ISO 3251	(23÷26)%
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	20 ÷ 30 seconds
Drying time		24 ÷ 36 hours ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.

IMPRE-VELOX

Accelerating additive for Elastiflex

Description: Additive formulated based on inorganic copolymers in water dispersion; it allows for faster hardening at low temperatures of the Elastiflex / Elastiflex Plus / Elastiflex Top bituminous acrylic liquid membrane.

Advantages:

- Reduces hardening times in winter (for temperatures < +10 °C).
- Increases resistance to washout in case of rain in the first hours after application.

Applications: Use only mixed with the product Elastiflex / Elastiflex Plus /Elastiflex Top.

Application:

- Thoroughly mix the product by hand with the entire package only at the time of use. The mixed product must then be used within 1 hour.
- Use only one bottle per package of Elastiflex / Elastiflex Plus liquid sheath.

Warnings:

- For application, follow all the instructions and warnings given in the Elastiflex / Elastiflex Plus /Elastiflex Top technical sheet.
- Store in tightly sealed bottles.
- For further information, request the safety data sheet.

Packaging:

- Impre-Velox is supplied in pre-dosed quantities.
- 100 g bottles for 10 kg packages of Elastiflex / Elastiflex Plus /Elastiflex Top.
- 200 g bottles for 20 kg packages of Elastiflex / Elastiflex Plus / Elastiflex Top.

Technical data:

MAIN CHARACTERISTICS

Appearance		Liquid
Colour		Blue
Shelf life in closed original packaging		24 months
Density (at 20°C)	EN ISO 2811-1	(1.35÷1.38) kg/L



ANTISAL BARRIER

Chemical barrier for walls against rising damp

Description: Single-component liquid based on polar solvents and special additives for the treatment of damp walls.

- Advantages:**
- Creates a hydrophobic filter and prevents rising damp, thus eliminating unsightly efflorescence and the disintegrating action due to crystallisation.
 - Facilitates the evaporation of humidity in walls.
 - Penetrates into the pores of the material without creating surface films and vapour barriers.
 - Easy to apply.
 - Features high penetration even on extremely compact materials.
 - Prevents the transport of hygroscopic salts.

Applications: Used for the external and internal treatment of above-ground or partially underground walls affected by rising damp and saline efflorescence. In general, it is used in all cases of exposed walls or in combination with dehumidifying plasters. Rising damp carries large quantities of salts, such as sulphates, chlorides, nitrates, etc., along its path; these then crystallise giving rise to efflorescence. The tensions generated by the crystallisation of the salts cause chalking and detachment of plaster and finishes, due to the increase in volume of the salt crystals.

- Surface preparation:**
- Remove the old plaster for about 0.5 m beyond the sign of the maximum level reached by humidity during the seasons. Brush the surface vigorously removing all loose materials without consistency, oils, release agents, salts, dust and soiling in general by tapping, brushing and hydro-washing.
 - Fill any cavities with shards of brick or gauged mortar.
 - For walls strongly impregnated with salts and oily substances, wash with a 10% alcohol solution in water, applied with a brush.

- Application:**
- Drill with a Φ 12 mm drill bit for about $\frac{3}{4}$ of the wall's thickness. Place the holes horizontally every 10-12 cm in two staggered rows, spaced about 8 cm apart. The holes should also be inclined by about 10°. Fasten the injection pipes with cement mortar and wait for the mortar to set before injecting the product.
 - Antisal Barrier is ready to use and is applied by low pressure injection, using a special pump, or by gravity. Impregnation should be carried out when the surface is saturated.

Consumption: Consumption is highly variable from 0.1 to 1 litre per hole depending on the porosity of the surface.

- Warnings:**
- Do not use in non-ventilated premises.
 - Do not use on surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Flammable product; Store in tightly sealed original packaging.
 - Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 5 and 10 L metal pails.
 - 200 L metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Colourless
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	> +23 °C
Density (at 20 °C)	EN ISO 2811-1	(0.77÷0.83)kg/L
Viscosity (Flow time at 20 °C, Φ 4 mm cup)	EN ISO 2431	12 ÷ 16 seconds
Drying time		30 ÷ 60 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.

**CUSTOMER FRIENDLY
SUPPORT INNOVATIVE
POSITIVE PRECISE
TIMELY**

IMPERDRY

High-penetration, transparent, water-repellent, protective waterproofing paint

Description: Solvent-based, colourless protective waterproofing and water-repellent paint, formulated with water-repelling resins and special additives, with high penetration capacity even on less absorbent surfaces.

- Advantages:**
- Water-repellent: It creates a barrier that blocks infiltrations and humidity stains, without resorting to radical renovations and thus maintaining the natural breathability and colour of the surface unaltered.
 - Restores the existing floor without altering it.
 - Colourless: Invisible waterproofing.
 - Does not form surface films.
 - Allows the natural breathability of materials.
 - Prevents the transport of hygroscopic salts.
 - Excellent light and acid solution stability.
 - Allows passage and foot traffic on terraces without deteriorating.
 - Avoids demolition of tiled floors when this is very labour-intensive and too expensive.

Applications: Terraces, balconies, external facades, concrete and tiled surfaces in stoneware, terracotta, clinker, kerlite and wood (not pretreated). Absorbent stones such as sandstone, tuff, trachyte, terracotta, plasters, etc.

- Surface preparation:**
- Before applying, make sure that the surfaces are free from dirt, dry and perfectly degreased from previously applied substances such as waxes or the like. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - It is advisable to seal any cracks and grout the joints between tiles with mortar where necessary.

- Application:**
- Apply Imperdry by brush or spray, taking care to clean the product not absorbed and in excess after a maximum of 30 minutes from its application, using a dry and clean cloth.
 - The product is ready to use.
 - Drying time varies with the temperature and the porosity of the surface; generally it is 1 hour. The flooring is waterproof after 24 hours but the product is completely dry only after a week.
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: The yield of Imperdry depends on the porosity and absorption of the surface to be treated. The yield for terraces and tiled facades is 3-7 m²/L; for compact bricks and cement 1-2 m²/L; for wood 2-3 m²/L. It is advisable to check the absorption by the surface by carrying out a preliminary test.

- Warnings:**
- Flammable product. Do not use in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 1, 5, and 10 L metal pails; 200 L metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Colourless
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23°C
Density (at 20 °C)	EN ISO 2811-1	(0.76 ÷ 0.81) kg/L
Viscosity (Flow time at 20 °C, Ø 4 mm cup)	EN ISO 2431	9÷12 seconds
Drying time		30 ÷ 60 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (H HYDROPHOBIC IMPREGNATION - PRINCIPLES: PI-MC-IR)		
Depth of penetration	EN 1504-2 (Schedule 3 no. 19)	Penetration: < 10 mm
		Class I
Water absorption and resistance to alkali	EN 13580	Absorption ratio compared to the untreated test cube: <7.5%
		Result: compliant
		Absorption ratio after exposure to alkali: <10%
Drying rate for hydrophobic impregnation	EN 13579	Result: compliant
		Drying rate coefficient: >30%
		Class I

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



HYDROCOTE EXTRA

Transparent water-repellent impregnating paint for absorbent materials

Description: Waterproofing and water-repellent protective paint, colourless with high penetration. Reacts with the silicates constituting the mineral support and with the humidity present in the alkaline layer, forming a hydrophobic protection.

- Advantages:**
- Water-repellent: It creates a barrier that blocks infiltrations and humidity stains, without resorting to radical renovations and thus maintaining the natural breathability and colour of the surface unaltered.
 - High penetration.
 - Colourless and transparent, it does not create surface gloss.
 - It does not form surface films: it allows the natural transpiration of surfaces.
 - Prevents the transport of hygroscopic salts.
 - Excellent resistance to UV rays and acid solutions.
 - Protects against bacteria and algae.
 - Protects against freeze-thaw phenomena.

- Applications:**
- It is used for the protective treatment of all building absorbent minerals such as exposed concrete, plasters, cement mortars, sandstone and limestone masonry, brick masonry, and exterior finishes with mineral paints and as a primer for exterior paints, Impre Beton type anti-carbonation.
 - It is ideal for the protection of concrete in road construction, in bridges, viaducts, guardrails, and structures which are subject to the disintegrating cycles of freezing and thawing and to the aggressive action of salts.

Surface preparation: Before applying, make sure that the surfaces are free of dirt, dry and perfectly degreased and in any case wait until the surface is visually dry; the moist substrate favours the reaction of the silane and therefore there is no need for a long wait before impregnation.

- Application:**
- The product is ready to use. Apply by brush, spray or by immersion.
 - Application is to be considered complete when the surface is saturated and completely absorbed by the product.
 - Drying time varies with the temperature and the porosity of the surface; generally it is 1 hour. The treated surface is waterproof after 24 hours but the product is completely dry only after a week.
 - The tools can be cleaned with the common synthetic or nitro thinners.

- Consumption:** Consumption varies according to the surface to be treated:
- mineral plaster 0.5-0.8 L/m².
 - masonry 0.4-1.0 L/m².
 - natural stone 0.1-1.5 L/m².
 - porous concrete 0.5-1.5 L/m².

- Warnings:**
- Flammable product. Do not use in non-ventilated premises.
 - The product is not suitable for treating plaster and marble surfaces.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 1, 5, and 10 L metal pails;
 - 200 L metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Colourless
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23°C
Density (at 20 °C)	EN ISO 2811-1	(0.76 ÷ 0.81) kg/L
Viscosity (Flow time at 20 °C, Ø 4 mm cup)	EN ISO 2431	8÷12 seconds
Drying time		30 ÷ 60 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (H HYDROPHOBIC IMPREGNATION - PRINCIPLES: PI-MC-IR)		
Depth of penetration	EN 1504-2 (Schedule 3 no. 19)	Penetration: < 10 mm
		Class I
Water absorption and resistance to alkali	EN 13580	Absorption ratio compared to the untreated test cube: <7.5%
		Result: compliant
Drying rate for hydrophobic impregnation	EN 13579	Drying rate coefficient: >30%
		Class I

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



IMPRE BETON

Anti-carbonation paint

Description: Solvent-based protective and decorative paint, formulated with selected synthetic resins and special additives, specific for preventing the carbonation of concrete structures.

- Advantages:**
- anti-carbonation protection of concrete structures.
 - forms a film that is waterproof but permeable to vapour.
 - high resistance to the penetration of CO₂ present in the atmosphere.
 - perfect adhesion to the surface.
 - rapid drying.
 - suitable to be applied also in winter.
 - gives excellent resistance to chalking of the treated surfaces.
 - protects against aggressive atmospheric agents.
 - prevents rusting on the reinforcement bars.

- Applications:** Suitable to coat:
- concrete and fibre-cement walls and structures.
 - fibre-cement slabs
 - wood and metal surfaces, plaster, pantiles and roof tiles.

- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
 - Apply at temperatures between +5°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

- Application:**
- The product is ready to use.
 - Apply Impre Beton, after mixing, by brush, broom, roller or airless spray. It is possible to dilute the product up to a maximum of 20% using nitro or synthetic thinners.
 - Apply in 2 cross coats. The second coat should be applied when the first is perfectly dry (after approx. 3 hours).
 - On particularly porous surfaces it is advisable to apply a coat of Impre Beton diluted up to 20% as an adhesion primer.
 - Use common synthetic thinners to clean tools.

Consumption: Average consumption per single coat of product depends on the nature and porosity of the material to be treated and varies between 0.15 and 0.20 L/m².

- Warnings:**
- Do not use indoors or in non-ventilated premises.
 - It is advisable not to exceed the consumption indicated above, because the film may not dry perfectly in depth.
 - Do not apply on very hot surfaces as the process of formation of the paint film would be excessively accelerated with negative consequences on the cohesion and adhesion of the product to the surface.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is ≤ 5% by weight (for screeds with a density of 2000 kg/m³).
 - Do not apply in case of rain or high humidity while the film is drying.
 - In any case, we recommend carrying out a preliminary application test to check

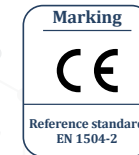
- Warnings:**
- whether the product is compatible with the surface.
 - Do not use for surfaces or containers of edible liquids, for drinking water or that may come into contact with solvents or mineral oils.
 - Do not paint tanks, basements or channels subject to strong water backpressure or pressurised water.
 - Flammable product.
 - Store in tightly sealed original packaging.
 - Do not expose to direct sunlight, temperatures higher than 40 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 1, 5, 10, 20, and 25 L metal pails.

Available colours:



N.B.: other colours are available on request for minimum production quantities.



IMPRE BETON

Anti-carbonation paint

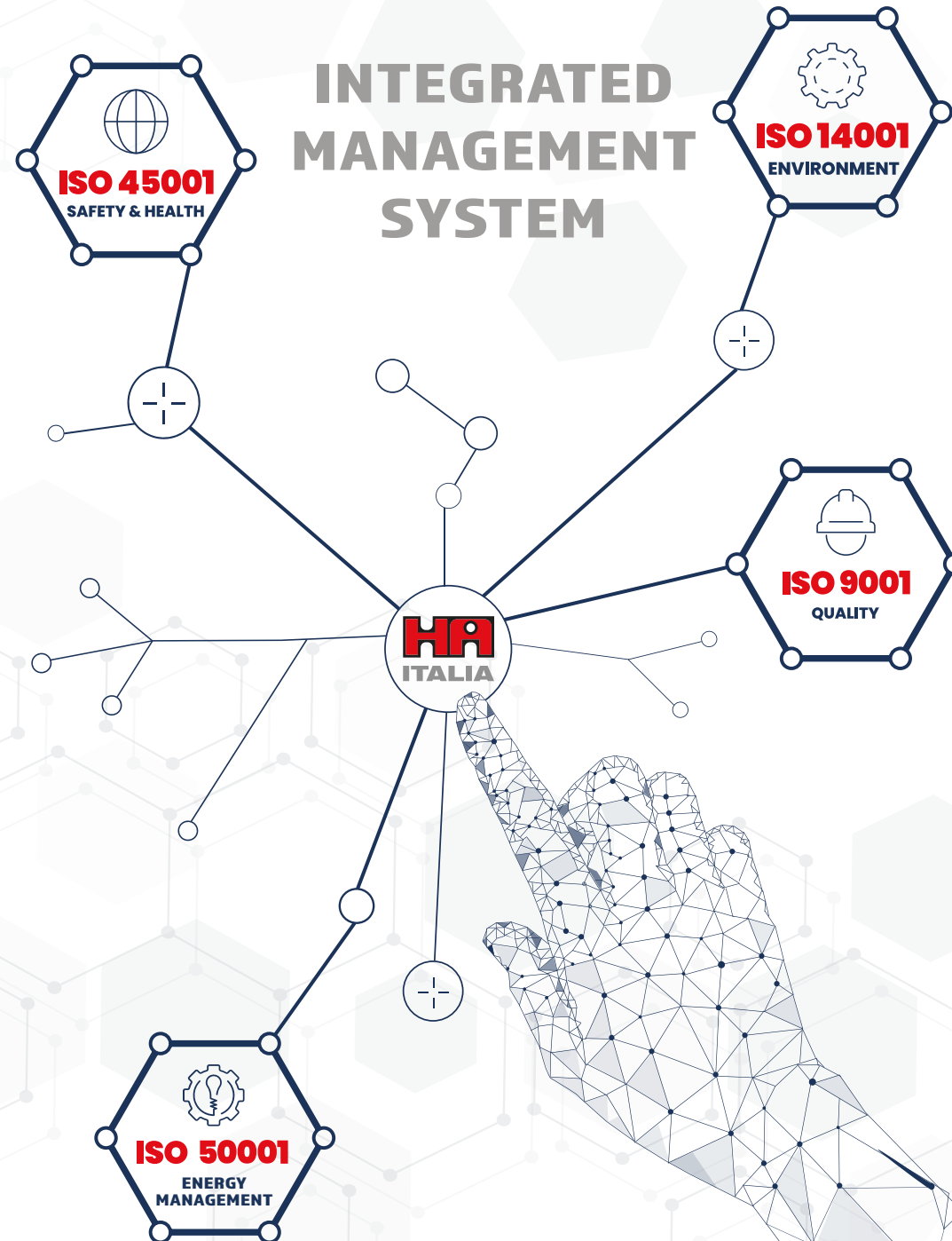
Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		grey, white, cream
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23°C
Solid content (m/m at 130 °C)	EN ISO 3251	Grey (64÷72)%
		White (49÷55)%
		Cream (64÷72)%
Viscosity (Flow time at 25 °C, Ø 4 mm cup)	EN ISO 2431	Grey 150÷190 seconds
		White 140÷170 seconds
		Cream 150÷190 seconds
Density (at 20 °C)	EN ISO 2811-1	Grey (1.24÷1.32)kg/L
		White (1.13÷1.19)kg/L
		Cream (1.31÷1.39)kg/L
Crack Bridging Ability (method A)	EN 1062-7	Class A3
Dust-free time		30 ÷ 60 minutes ¹
Waiting time between the first and second coat		3 hours ¹
Operating temperature		-30°C ÷ +90°C

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbcency of surfaces.

PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO ₂	EN 1062-6	S _D > 50 m
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0.5}
Tensile bond strength	EN 1542	≥ 1 N/mm ²

INTEGRATED MANAGEMENT SYSTEM



SICAFIX 120

Transparent water-repellent protective consolidating product for masonry and natural stone

Description: Solvent-based water-repellent consolidating and impregnating product, formulated with water-repellent resins and special additives.

- Advantages:**
- Excellent penetration into the mineral surface to be treated.
 - Consolidating and water-repellent effect with a single product.
 - Resistant to UV rays and aggressive weathering (pollutants, rain, wind, sun, freeze/thaw cycles).
 - Remains permeable to vapour without creating a film.
 - No stickiness.

Applications: Suitable for the restoration, consolidation and protection from weathering of absorbent stone building materials, absorbent stones such as sandstone, tuff, trachyte, terracotta, plaster, etc.

- Surface preparation:**
- Before applying, make sure that the surfaces are free of dirt and dry. Apply at temperatures between +10 °C and +25 °C; avoid the application in anticipation of weather conditions that could negatively affect the correct drying of the product.
 - For optimal application, we recommend not to expose the surface to be treated to direct sunlight.

- Application:**
- Apply Sicafix 120 by brush, by spraying with low pressure sprayers (0.5 bar).
 - The product is ready to use.
 - The material to be treated must be completely saturated up to the refusal of the consolidating product in order to reach the sound core of the stone.
 - Drying time varies with temperature and the porosity of the material. The water-repellent consolidating product completes its reaction after about four weeks at an ambient temperature of 20 °C with a relative humidity of 40-50%.
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: The quantity of material to be used varies according to the nature of the surface to be treated between 0.3-0.5 L/m².

- Warnings:**
- Do not use in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Store in tightly sealed original packaging.
 - Flammable product.
 - Do not expose to temperatures over 30 °C, direct sunlight, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 1 and 10 L metal pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Colourless
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23°C
Density (at 20 °C)	EN ISO 2811-1	(0.91 ÷ 0.97) kg/L
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	10 ÷ 14 seconds
Drying time		30 ÷ 60 minutes ¹
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (H HYDROPHOBIC IMPREGNATION - PRINCIPLES: PI-MC-IR)		
Depth of penetration	EN 1504-2 (Schedule 3 no. 19)	Penetration: < 10 mm
		Class I
Water absorption and resistance to alkali	EN 13580	Absorption ratio compared to the untreated test cube: <7.5%
		Result: compliant
Drying rate for hydrophobic impregnation	EN 13579	Drying rate coefficient: >30%
		Class I

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



ANTISAL

Transparent salt-resistant impregnating agent

Description: Colourless solvent-based, salt-resistant paint, formulated with silanes, siloxanes and special additives.

- Advantages:**
- Prevents the formation of saline efflorescence in walls subject to rising damp.
 - Does not reduce breathability.
 - Does not form a vapour barrier film.
 - Features high penetration even on extremely compact materials.
 - Blocks the transport by rising damp of hygroscopic salts that are responsible for the detachment and chalking of the finish or plaster.

Applications: It is used for the external and internal treatment of above-ground or partially underground walls affected by rising damp and saline efflorescence.

- Surface preparation:**
- Before applying, make sure that the surfaces are free from dirt, dry and perfectly degreased from previously applied substances such as waxes or the like. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - An optimal impregnating effect is obtained on dry and absorbent surfaces, but it can also be applied on wet surfaces.

- Application:**
- Apply Antisal by brush or airless spray.
 - The product is ready to use.
 - Application (recommended in two coats) is to be considered complete when the surface is saturated and completely absorbed by the product.
 - Drying time varies with the temperature and the porosity of the surface; generally it is 1 hour.
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: Consumption as a salt stabiliser is approximately 0.5 L/m², as a hydrophobing agent for tuff surfaces 0.5 L/m², for concrete and lime plaster 0.3 L/m², for masonry 0.5 L/m².

- Warnings:**
- Do not use in non-ventilated premises.
 - Do not use to waterproof surfaces or containers intended to contain edible liquids, drinking water or which are in contact with solvents or mineral oils.
 - Store in tightly sealed original packaging.
 - Flammable product
 - Do not expose to direct sunlight, heat sources, open flames, other sources of ignition or temperatures exceeding 30 °C.
 - Comply with the information on the safety data sheet.

- Packaging:**
- 5 and 10 L metal pails.
 - 200 L metal drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Colourless
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23°C
Density (at 20 °C)	EN ISO 2811-1	(0.77 ÷ 0.83) kg/L
Viscosity (Flow time at 20 °C, DIN/4 mm cup)	EN ISO 2431	10 ÷ 14 seconds
Drying time		30 ÷ 60 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbency of surfaces.



ANTISAL

IMPRE BETON NATURAL

Liquid consolidating product for absorbent stone

Description: Liquid product based on ethyl silicate in solvent for the restoration and consolidation of absorbent stone elements containing silicon.

- Advantages:**
- Complete drying without formation of viscous substances.
 - Restores the existing surface without altering the colour.
 - Colourless: Invisible impregnation.
 - Does not form surface films, good water vapour permeability
 - Easy- and safe-to-use single-component product.
 - High penetration into the stone material.
 - Excellent stability to light (UV rays), resistant to weathering
 - Formation of reaction by-products which are not harmful to the treated surface.

Applications: Consolidation and restoration of absorbent stone elements containing silicon, such as sandstone, tuff, trachyte, terracotta, plaster, marble, brick and damaged plaster.

- Surface preparation:**
- Before applying, make sure that the surfaces are free from dirt, dry and perfectly degreased from previously applied substances such as waxes or the like. Avoid application if bad weather is forecast, as it could negatively affect the proper drying of the product.
 - It is recommended that temperature of the material should be between +5 and +30 °C.
 - It is not recommended to use acids or alkalis or water containing salts for cleaning which could cause efflorescence.

- Application:**
- The product is ready to use.
 - Apply by saturation, brush or spray (low pressure: maximum 0.5 bar).
 - Apply in several coats or several spray cycles until the material to be treated is completely saturated in order to reach the sound core of the stone.
 - One application cycle is usually sufficient; sometimes, it is necessary to repeat the treatment after 2-3 weeks.
 - Impre Beton Natural completes its reaction after about four weeks at an ambient temperature of 20 °C with a relative humidity of 40-50%.
 - Once consolidation is complete, it is essential to proceed with treatment with Imperdry, a water repellent based on hydrophobic and waterproofing resins in organic solvents to ensure high penetration without reducing the permeability of the surface to water vapour.
 - Protect from the sun's rays during application.
 - The tools can be cleaned with the common synthetic or nitro thinners.

Consumption: It can vary from 0.3 to 1.5 L/m² according to absorption by the material.

- Warnings:**
- Do not use in non-ventilated premises.
 - Due to the heterogeneity of existing stone materials, it is essential to carry out preliminary tests on samples of the stone material to be treated in order to check the degree of consolidation and the quantity of material to be used.
 - Store in tightly sealed original packaging.
 - Flammable product.
 - Do not expose to heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging:

- 1000 kg IBC.
- 220 kg drums.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Colourless
Shelf life in closed original packaging		24 months
Density (at 20 °C)	DIN 51757	(1.05÷1.07) kg/L
Solid content (m/m at 130 °C)	EN ISO 3251	(67÷73)%
Viscosity (Flow time at 25 °C, DIN/4 mm cup)	EN ISO 2431	10 ÷ 14 seconds
Closed-cup flash point	ASTM D3828-87	>33°C
Ignition temperature	DIN 51794	+235 °C



BETON AM37

Liquid additive for mortars and expansive grouts

Description: Special liquid synthetic product for expansive mortars and grouts with water retention function.

- Advantages:**
- More effective curing of expansive mortars and improved final performance.
 - It gives mortars the ability to compensate for long-term shrinkage phenomena (hygro-metric shrinkage).
 - Its action retains the mixing water, preventing rapid evaporation and thus allowing for better cement hydration process and more efficient curing.
 - It favours the adhesion between the filler (repair) material and the support, which is the primary objective of any reinforcement intervention.
 - Colourless
 - Easy- and safe-to-use single-component product.

Applications: Additive to be added to the mixing water for mortars and expansive grouts in air.

Mixing: Add 3/4 of the total water and the required amount of Beton AM 37 to the concrete mixer. Pour the powder into the concrete mixer while it is turning. After blending the mix uniformly, add the remaining quantity of water. Mix for 4-5 minutes to allow all the constituents of the product to act, thus ensuring a homogeneous and lump-free mix.

Consumption: Add to the mixing water with a dosage equal to 1% with respect to the weight of the powder in the mortars and equal to 0.5% with respect to the weight of the expansive grout powder.

- Warnings:**
- Do not use in non-ventilated premises.
 - Store in tightly sealed packaging and at a temperature between +5 °C and +30 °C.
 - Comply with the information on the safety data sheet.

Packaging: 900 kg IBC.

Technical data:

MAIN CHARACTERISTICS

Appearance		Liquid
Colour		Colourless
Shelf life in closed original packaging		24 months
Density (at 20 °C)	EN ISO 2811-1	(0.91±0.93) kg/L
pH (at 20 °C)		6.0±8.0
Dynamic viscosity (at 20 °C)		24 [mPa]s
Closed-cup flash point	ASTM D3828-87	> +97 °C



HA.ROADLINE

Road marking paint for road signage

Description: Solvent-based paint, formulated with selected synthetic resins and special additives, specific for horizontal road signs on bituminous and cement surfaces.

- Advantages:**
- Perfect adhesion.
 - Rapid drying.
 - Excellent degree of coverage.
 - Frost resistant.
 - Long-lasting paint resistant to weathering and UV rays.
 - Creation of a finish characterised by extreme hardness.
 - Ensures long-lasting resistance and colour.

Applications: Road marking paint for bituminous and cement pavings.

- Surface preparation:**
- Make sure that the surface is perfectly dry and anchored to the substrate and there is no dirt, grease or contamination by agents that could compromise adhesion or the success of application.
 - Apply at temperatures between +5°C and +35°C.
 - Avoid extreme conditions of heat and/or cold, relative humidity above 80% and rain during application and drying of the film.

Application: HA.ROADLINE is ready for use and needs to be mixed uniformly before use. Depending on the desired viscosity, up to 10% HA.ROADLINE DL thinner can be added. It can be applied by brush or roller, to be cleaned in advance with a special nitro thinner before the product dries. Alternatively, it can be applied by spraying with a pressure cup gun.

Consumption: The dosage of HA.ROADLINE varies according to the porosity of the application surface. After removing any traces of dirt or dust, and checking that the surface is completely dry before applying the product, normally the dosage varies between 0.3 and 0.7 Kg/m².

- Warnings:**
- Do not use indoors or in non-ventilated premises.
 - Apply at temperatures between +5°C and +35°C.
 - Avoid extreme conditions of heat and/or cold, relative humidity above 80% and rain during application and drying of the film.
 - Do not apply with the imminent risk of rain or with persistent mists; protection from rain must be ensured for the entire time necessary for the product to dry completely.
 - In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.
 - Store in tightly sealed original packaging.
 - Flammable product
 - Do not expose to temperatures over 40 °C, heat sources, open flames or other sources of ignition.
 - Comply with the information on the safety data sheet.

Packaging: 1, 5, 10, 20 and 25 kg metal pails.



Technical data:

MAIN CHARACTERISTICS		
Appearance		Viscous liquid
Colour		White, Yellow, Green, Orange, Red, Blue
Shelf life in closed original packaging		24 months
Solid content (<i>m/m at 130 °C</i>)	EN ISO 3251	(73÷81)%
Brookfield viscosity (<i>at 20 °C, spindle 3; 10 rpm</i>)	EN ISO 3219	(6,000±1,200) cP
Density (<i>at 20 °C</i>)	EN ISO 2811-1	(1.49÷1.59)kg/L
Closed-cup flash point	ASTM D3828-87	> +23 °C
Overpaintability		5÷8 hours ¹
Drying time to touch		10÷15 minutes ¹
Time for pedestrian traffic		30÷35 minutes ¹

¹ Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbercy of surfaces.



HA.ROADLINE DL

Road paint thinner

Description: Hydrocarbon-based anhydrous thinner, to be used in combination with solvent-based road paints (HA.ROADLINE).

Applications:

- Dilution of paints for road signs such as HA.Roadline.
- Cleaning of tools used for the application of the road paint.

Warnings:

- Flammable product. Store in closed packages
- Do not use in non-ventilated premises.
- Do not expose to heat sources, open flames or other sources of ignition.
- Comply with the information on the safety data sheet.

Packaging: 25 L metal pails.

Technical data:

MAIN CHARACTERISTICS

Appearance		Liquid
Colour		Colourless
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	> +23 °C
Density (at 20 °C)	EN ISO 2811-1	(0.87÷0.88) kg/L



DILUXIL

Multipurpose thinner

Description: Medium drying anhydrous hydrocarbon-based thinner, to be used in combination with solvent-based sheaths and paints.

Advantages:

- Liquid.
- Colourless.
- Allows the creation of the primer starting from the chosen liquid membrane.
- Soluble in the most common organic solvents.

Applications:

- Dilution of liquid sheaths.
- Dilution of enamels and synthetic rust inhibitors for brush application.
- Dilution of paints.

Application: For waterproofing porous concrete surfaces, apply a coat of primer before spreading the liquid sheath by diluting the liquid membrane such as Elastiden C or Elastiden Plus 50% with Diluxil.

Warnings:

- Flammable product.
- Do not use in non-ventilated premises.
- Do not expose to heat sources, open flames or other sources of ignition.
- Comply with the information on the safety data sheet.

Packaging: 4 kg metal pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		Colourless
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	> +21 °C
Density (at 20 °C)	EN ISO 2811-1	(0.86±0.87) kg/L



BITUMEN BLOCKS

Solid oxidised bitumen

Description: Mixture of selected high molecular weight bitumen in the form of loaves wrapped in a polyethylene film.

Advantages: Contains no hazardous substances.

Applications:

- Protective for cement surfaces.
- Connection layer between cement surfaces and compatible heat-insulating materials.
- Connection layer between compatible heat-insulating materials.

Packaging: Polyethylene bags of 25 kg each.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Solid
Penetration (at 25°C)	EN 1426	(10±20) dmm
Softening point	EN 1427	(85±110)°C
Density (at 20 °C)	EN ISO 2811-1	(1.00 ± 0.03) kg/L
Viscosity (at 60°C)	EN ISO 12595	>1000 mm ² /s
Flash point	EN ISO 2592	> 250 °C
Melting point	EN 1427	> 50 °C
Autoignition temperature	ASTM 659	> 400 °C



GUM TEX PLUS

Reinforcing non-woven fabric for liquid sheaths

Description: Gum Tex PLUS is a non-woven fabric made of reinforced spunbound polyester with glass fibre filaments (filaments spaced longitudinally of approximately 8 mm).

Applications: Gum Tex PLUS is a non-woven fabric available in the 70 g/m² (Gum Tex 70 PLUS) or 110 g/m² (Gum Tex 110 PLUS) version and generally used as reinforcement or reinforcement base for waterproofing coatings made with liquid sheaths. The use of non-woven reinforcement allows an increase in the mechanical characteristics and stability over time of liquid waterproofing systems.

Application: Gum Tex PLUS is applied between the first and second layer of coatings made with liquid membranes. The reinforcement of the element to be waterproofed must be continuous both on the plane and along the vertical edges. It is advisable to provide an overlap of at least 3 cm and to carry out the waterproofing using the reinforcement also in the technical details such as corners, vents, unions, etc. The use of Gum Tex PLUS reinforcement involves increased consumption of the liquid product used for waterproofing.

Packaging:

- Gum Tex 70 PLUS: Roll size (1 x 100) m; weight 7kg; surface area 100 m².
- Gum Tex 110 PLUS: Roll size (1 x 100) m; weight 11kg; surface area 100 m².
- Gum Tex 110 PLUS: Roll size (1 x 2200) m; weight 242kg; surface area 2200 m².

Technical data:

MAIN CHARACTERISTICS

GUM TEX ¹	Standard	70 PLUS	110 PLUS
Colour		Light green	Light green
Surface mass density	ISO 9073-1	70 g/m ²	110 g/m ²
Thickness	ISO 9073-2	0.65 mm	0.90mm
Softening point		260°C	260°C
Tensile strength - Maximum force (N/5cm)	ISO 9073-3	240 (MD) - 90 (CD)	290 (MD) - 160 (CD)
Tensile strength - Force at rupture (N/5cm)	ISO 9073-3	90 (MD) - 90 (CD)	160 (MD) - 160 (CD)
Hot tensile strength (at 80 N)	Internal method	0.2% (MD)	0.2% (MD)
Elongation at rupture	ISO 9073-3	16% (MD)	20% (MD)
		25% (CD)	31% (CD)

¹ Gum Tex PLUS gives LEED credits (MR4) for the content of recycled materials (79%).
(MD): force applied longitudinally. (CD): force applied crosswise.



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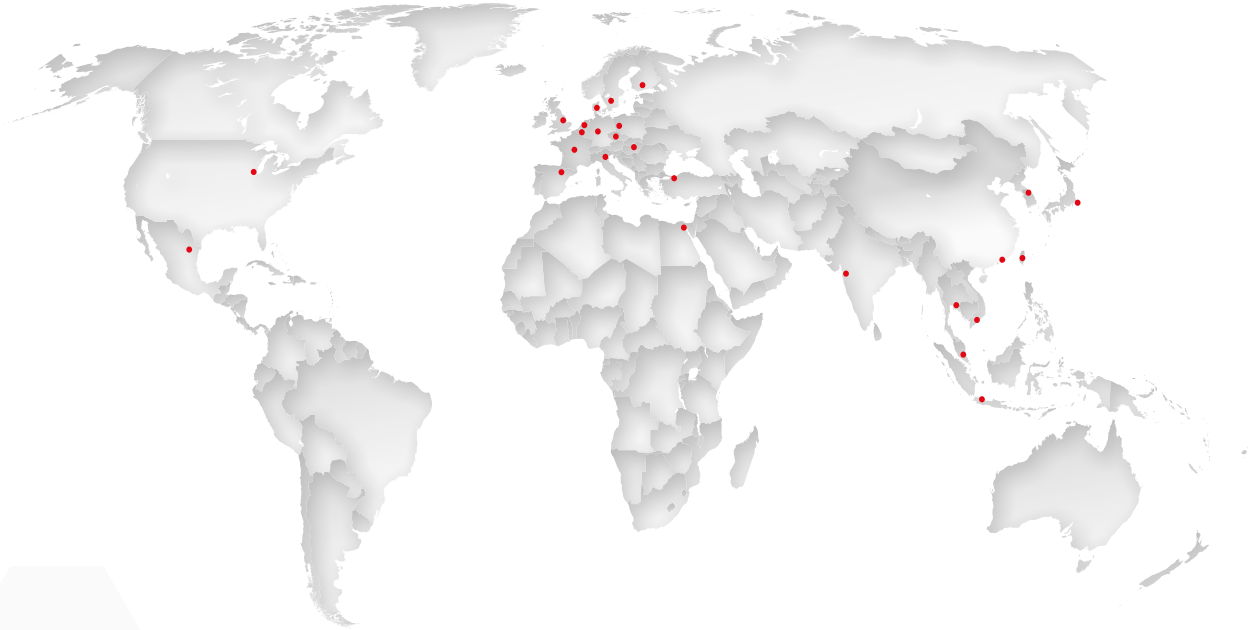
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