PRODUCT TECHNICAL DATA

ELASTIFLEX

Multi-purpose pigmented bituminous acrylic liquid sheath

MADE IN ITALY

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 preferable to wait for the following day.

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- 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.

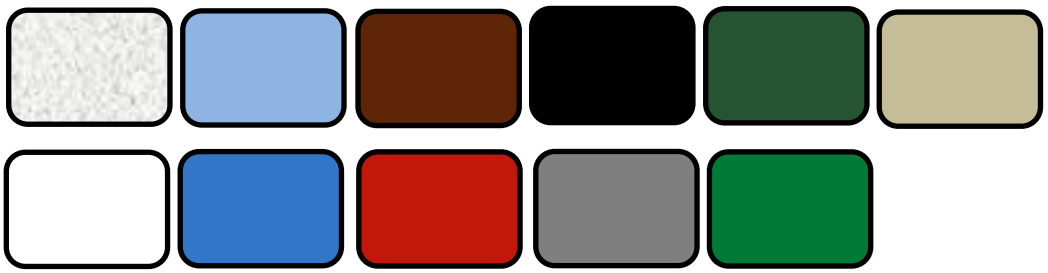
Consumption: Product consumption depends on the support and the desired thickness; on average, to obtain a dried film of 1 mm, the amount of product used will be about 1.5 kg/m². Average product consumption with 2 coats without reinforcement about 1.5-2 kg/m², with reinforcement about 2-2.5 kg/m².

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/m^3).
- 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:



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.

HA ITALIA

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Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colours		Black, White, Grey, Red, Green. Blue
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
		Off-White (1.30-1.40) 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*
Drying time for recoating		24-48 hours*
Operating temperature		-30°C - +80°C

* 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 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 at-10°C *(method A)*	EN 1062-7	class A5 (≥ 10 mm)
Reaction to fire	EN 13501-1	E

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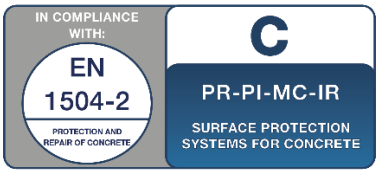
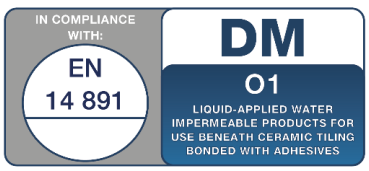
RESISTANCE TO STATIC INDENTATION EOTA TR 007		
LOAD	LOAD CATEGORY	RESULT
150 N	P2	Product water resistance: LEVEL L2 (WITH LOAD CATEGORY P2)
RESISTANCE TO DYNAMIC INDENTATION EOTA TR 006		
TYPE OF PUNCH	PUNCH DIAMETER	RESULT
I2	20 mm	Product water resistance: LEVEL L2

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 O1	Impermeable product applied in liquid dispersion with improved crack bridging ability at low temperatures (-5 °C)





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