

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.

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- 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 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.
 - 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 $\leq 5\%$ 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.

**Available
colours:**



Technical data:
MAIN CHARACTERISTICS

Appearance		Thixotropic paste
Colour		Black, Grey, Brown
Shelf life in closed original packaging		24 months
Maximum application thickness (in 2 coats)		3 mm
Solid content (<i>m/m at 130 °C</i>)	EN ISO 3251	(73-81)%
Brookfield viscosity (<i>at 20 °C, spindle 6; 10 rpm</i>)	EN ISO 3219	(65,000±13,000)cP
Density (<i>at 20 °C</i>)	EN ISO 2811-1	(1.45-1.55) kg/L
pH (<i>at 20 °C</i>)		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*
Drying time for recoating		24-48 hours*
Operating temperature		-30°C - +80°C
Hail resistance	UNI EN 13583	
Support type	rigid	Flexible
Damage rate v _d	30 m/s	35 m/s

* 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	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(<i>method A</i>)	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
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)



**PERFORMANCE PROPERTIES - EN 15814
POLYMER MODIFIED BITUMINOUS THICK COATINGS FOR WATERPROOFING (PMCB)***

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

*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).



**PERFORMANCE PROPERTIES -UNI 11928-1
LIQUID APPLIED PRODUCTS FOR WATERPROOFING**

PERFORMANCE PROPERTIES	METHOD	PRODUCT PERFORMANCE
Water impermeability (at 60 KPa)	EN 1928	No water penetration
Water vapour permeability	EN ISO 7783	Class I (Sd < 5m)
Tensile bond strength (concrete support C40)	EN 1542	>1 N/mm ²
Impact resistance	EN ISO 6272-1	Class III (≥20 N/m)
Static Indentation	EN 12730 (met. B)	≥ 50 N
Dynamic crack bridging (23°C)	EN 1062-7 (met. B)	Class B4
Dynamic crack bridging at low temperature (0°C)		
Skid resistant	EN 13036-4	Class III (PTV _{dry} :116 ; PTV _{wet} :109)
Liquid water permeability (capillary absorption)	EN 1062-3	Class W ₃ Low w < 0,1 Kg/m ² ·h ^{0,5}
Heat ageing resistance for 7 days at 70±3°C (Water impermeability at 60 KPa -UNI EN 1928)	point 4.1 of UNI EN 1062-11:2003	No water penetration
Acceptance criteria after heat exposure (7 days at 70±3°C)	EN ISO 4682-2 EN ISO 4682-4 EN ISO 4682-5	No swelling No cracking No spalling
Resistance to 20 freeze/thaw cycles without de-icing salts (Tensile bond strength – UNI EN 1542)	EN 13687-3	≥ 1 N/mm ²
Acceptance criteria after frost/thaw exposure (20 freeze/thaw cycles)	EN ISO 4682-2 EN ISO 4682-4 EN ISO 4682-5	No swelling No cracking No spalling
Resistenza UV (2460 hours of 400 MJ/m) and 492 hours spraying (Appearance examination)	EN ISO 4892-3 (cycle 3)	Pass
Acceptance criteria after UV rays and spray exposure (2460 hours of 400 MJ/m ² , and 492 hours spraying)	EN ISO 4682-2 EN ISO 4682-4 EN ISO 4682-5	No swelling No cracking No spalling
Reaction to fire	EN 13501-1	Euroclass E

ELASTIFLEX TOP complies with the UNI 11928-1:2023 standard as an in-situ liquid-applied waterproofing product used as a tightness element in a continuous (new or existing) exposed practicable roofing system.

The advice and technical information provided represent HA ITALIA S.p.A.'s best knowledge of product properties and use. Considering the different situations of use of the products and factors beyond our control (media, working conditions, failure to comply with instructions), we cannot be held responsible for the results obtained. Before using the product, anyone who intends to make use of it is required to determine whether it is suitable for the intended use and assumes full liability for whatever may arise from its use.

HA Italia disclaims any and all liability arising from failure to observe the warnings mentioned in this data sheet and failure to comply with the requirements set out in the safety data sheet.

Data sheet no.: REV02 dated 12.12.2024