

## **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 m<sup>2</sup> 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/m<sup>2</sup>. Average product consumption with 2 coats without reinforcement about 1.5-2 kg/m<sup>2</sup>, with reinforcement about 2.0-2.5 kg/m<sup>2</sup>.

- 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/m<sup>3</sup>).
  - 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:**



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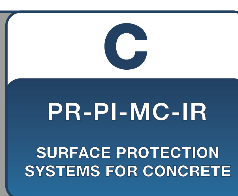
## Technical data:

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 ( <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 <sup>2</sup>
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

\* 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.

## 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 <sub>2</sub>	EN 1062-6	S <sub>D</sub> > 50 m
Water vapour permeability	EN ISO 7783	Class I (S <sub>D</sub> < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 kg/m <sup>2</sup> ·h <sup>0.5</sup>
Tensile bond strength	EN 1542	≥ 1 N/mm <sup>2</sup>
Abrasion resistance (Taber test)	EN ISO 5470-1	< 3 g
Impact resistance	EN ISO 6272-1	class III ( ≥20 Nm)
Crack Bridging Ability ( <i>method A</i> )	EN 1062-7	class A5 ( ≥ 10 mm)



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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
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 <sup>2</sup>	> 0.5 N/mm <sup>2</sup>
Tensile adhesion strength after water contact	> 0.5 N/mm <sup>2</sup>	> 0.5 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing	> 0.5 N/mm <sup>2</sup>	> 0.5 N/mm <sup>2</sup>
Tensile adhesion strength after freeze-thaw cycle	> 0.5 N/mm <sup>2</sup>	> 0.5 N/mm <sup>2</sup>
Tensile adhesion strength after contact with chlorinated water	> 0.5 N/mm <sup>2</sup>	> 0.5 N/mm <sup>2</sup>
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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**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).



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.: REV01 dated 01.01.2023



**HA ITALIA S.p.A.**  
**DIVISIONE PRODOTTI SPECIALI**

Viale della Scienza 78 -80 - 36100 Vicenza - Italy  
 Stabilimento Via Vicenza 72 - 36015 Schio (VI)  
 P.I. e C.F. IT00169590247 - Ph +39 0445 678000  
 info@ha-italia.com - www.ha-italia.com - [in](#) ha italia s.p.a - [f](#) ha italia s.p.a

