

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.
- Easy cold application
- 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.

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- 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.
 - 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 $\leq 5\%$ 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.
 - Consult the information at the bottom of this document.

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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.

Technical data:

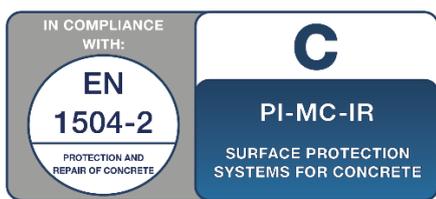
MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colour		Black (after drying)
Shelf life in closed original packaging		24 months
Solid content <i>(m/m at 130 °C)</i>	EN ISO 3251	(60-68)%
Brookfield viscosity <i>(at 20 °C, spindle 6; 10 rpm)</i>	EN ISO 3219	(50,000±10,000)cP
Density <i>(at 20 °C)</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*
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
Reaction to fire	EN 13501-1	E

* 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.

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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)



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.

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