

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.

ELASTIDEN C**Elastomeric bituminous liquid sheath****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/m^3).
- 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 $30 \text{ }^\circ\text{C}$, heat sources, open flames or other sources of ignition.
- Comply with the information on the safety data sheet.
- Consult the information at the bottom of this document.

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.

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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*
Drying time for recoating		24-48 hours*
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
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 absorptency of surfaces.



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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