

# **ELASTIDEN PUR**

## **Polyurethane-bitumen liquid sheath**

**Description:** Solvent-based single-component polyurethane-bitumen thixotropic liquid waterproofing membrane characterised by a high degree of elasticity and adhesion.

**Advantages:**

- Ready for use.
- Once dried, it forms a waterproof, elastic, and tough film.
- Adapts to any surface geometry to be coated (both vertically and horizontally).
- Very fast drying.
- Easy to apply even on complex profiles.
- Hardens with atmospheric humidity.
- Excellent resistance on surfaces in industrial areas or near the sea.
- Strong mechanical properties.
- Excellent resistance to chemicals.
- Strong adhesion properties.

**Applications:** Suitable for coating and waterproofing:

- terraces and balconies.
- flat roofing on concrete surfaces of variable geometries.
- underground and foundation walls.
- bridges and viaducts.
- old polymer-bitumen membranes and synthetic sheets (PVC, TPO, EPDM).
- wood, sheet metal and fibre cement roofs.
- roof and undertile details.

**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.
- Apply at temperatures between -5 °C and +40 °C; avoid extremely hot or cold conditions during application and drying of the film.

**Application:**

- Apply by brush, roller or airless spray (the product can be diluted up to 10% with solvent-based polyurethane systems).
- Any excess quantity of product applied does not cause the appearance of bubbles during the cross-linking phase.
- As soon as it is applied, Elastiden PUR is immediately resistant to rain.
- Use thinners for polyurethane products to clean tools.
- For waterproofing new concrete surfaces, it is always advisable to use a dust-proof bituminous primer (solvent-based or water-based); on large surfaces, reinforce the product by embedding a non-woven fabric reinforcement (such as polyester/polypropylene) in the first step while still fresh. The second coat can be applied after 12-24 hours, depending on ambient temperature and humidity.

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**Consumption:** -We recommend applying two coats. Apply the second coat only once the first is perfectly dry. Total product consumption is approximately 1.5-3.0 kg/m<sup>2</sup> depending on the porosity of the surface to be treated and the desired thickness.

**Warnings:**

- Do not use indoors or in non-ventilated premises.
- Do not apply the product in thick layers (we recommend a maximum of 1 mm per coat).
- If the applied product remains visible, the dried film should be protected with a coloured or aluminium coloured elastic coating.
- Once opened, the vacuum pack can be closed again taking care to let the air out of the polyethylene-aluminium bag; in this case, the product's shelf life will in any case be limited.
- It can be walked on occasionally in cases of occasional maintenance (the product can be considered walkable 24 hours after application at 20 °C and 60% relative humidity).
- Flammable product. Store in tightly sealed original packaging.
- Do not expose to temperatures over 30 °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:** 5 and 20 kg metal pails.

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### Technical data:

MAIN CHARACTERISTICS		
Appearance		Thixotropic paste
Colour		Black
Shelf life in closed original packaging		6 months
Closed-cup flash point	ASTM D3828-87	> +40 °C
Solid content ( <i>m/m at 130 °C</i> )	EN ISO 3251	(68-72)%
Density ( <i>at 20 °C</i> )	EN ISO 2811-1	(1.05-1.15) kg/L
Tack-free time		120 minutes*
Time to dry completely (per coat)		12-48 hours*
Overpainting time		15 days*
Shore hardness A		35/40
Operating temperature		-40°C to +100°C
Elongation at break		650%
Flexibility at low temperatures	EN 15813	-25 °C
PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO <sub>2</sub>	EN 1062-6	S <sub>D</sub> > 50 m
Water vapour permeability	EN ISO 7783	Class III (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>
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 absorbency 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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