

ELASTIFOND POL**Lightweight elastomer-bituminous liquid sheath**

Description: Lightweight high-thickness liquid waterproofing coating, formulated with bitumen in aqueous emulsion, selected elastomeric resins, polystyrene, and special additives.

Advantages:

- Resistance to aggressive natural substances present in soil.
- High waterproofing power.
- Excellent adhesion to the surface, even on slightly damp mineral substrates and on sufficiently stable bituminous surfaces.
- High flexibility and stability.
- Ready for use. Suitable for application by spray.
- Applicable thickness on vertical surfaces thanks to its great thixotropic properties.
- Meets the requirements for thick coatings in accordance with EN 15814.
- Easy application: thanks to its low weight, it allows considerable savings in time and labour.
- Non-toxic product, free from solvents. Odourless, non-flammable product.

Applications:

- High-thickness bituminous coating (PMBC) with polystyrene spheres, for the waterproofing of structures in contact with solid according to EN 15814 and DIN 18533.
- Protection of components in contact with soil according to DIN 18533 part 3 within the application area according to DIN 18533 for water exposure classes W1-E, W3-E and W4-E. It can be used on underground horizontal and vertical surfaces, floors, foundations, and cellar walls. It can be used on suitable mineral surfaces (e.g., concrete, bricks, etc.).
- External waterproofing of foundations, cellars, underground garages, and tanks.
- External waterproofing of load-bearing walls.
- Waterproofing of horizontal reinforced concrete structures under screeds decoupled from the substrate with protective sheets.
- Bonding of insulation panels to concrete, masonry, and thick dried insulating coatings.
- Creation of durable and flexible external coatings, for buildings in contact with the earth, applicable by both trowel and spray. Suitable for horizontal and sloping surfaces.
- Intermediate insulation (under the floor) of slabs, balconies, and terraces, as well as adhesive for rigid foam panels on bituminous and mineral substrates of buildings in contact with the ground.

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.
- The surfaces to be treated must be mature and aged and must not have defects, irregularities or gravel patches (these discontinuities can be repaired or levelled with suitable cement-based products).
- The horizontal surfaces (subsequently buried or under screed) must have a slope of not less than 1% in order to facilitate the flow of water outwards or towards any collection points.
- After duly preparing the surface, apply (before Elastifond Pol) a water-based bituminous primer to uniform absorption by the surface.

Application:

- It is used as is with a flat or notched trowel and by spray with a peristaltic pump.
- Do not interrupt work in corner areas; in the event of breaks, apply Elastifond Pol by tapering to zero. When resuming work, overlap the material by 10 cm. Depending on the conditions of use of the structure, it may be necessary to interpose a mesh of alkali-

resistant fibreglass between the first and second coat of Elastifond Pol. The reinforcement should be spread on the first layer while it is still fresh; the second layer can be applied only after the first has dried perfectly.

- To prevent bubbles from forming, in case of direct solar radiation, we recommend shading the surface or working in the early hours of the morning or in the evening.
- At the time of filling the foundation trench or applying subsequent protective layers, Elastifond Pol must be dry (> 2 days at +23°C and 50% RH).
- Drying time can vary depending on weather conditions, temperature and humidity, wind, the applied thickness and also the type of surface.
- Before backfilling, protect the waterproofed surfaces with suitable protective drainage layers.
- Backfill operations can take place with a perfectly dry product, 48/72 hours after application on the last part of the structure.
- Wash tools with water immediately after use; after hardening, the product should be removed with hot water or common thinners.

Consumption: - Approximately 0.8 kg/m² per mm of dry product thickness, the indicated consumption (see summary table) relates to the application of a continuous film on a flat surface and increases if the surface is irregular. Please note that to achieve the performances as per standard EN 15814 (see final performance values in the technical data table), the product should be applied in two coats in the thicknesses indicated by the standard.

Warnings:

- Apply at temperatures between +5 °C and +35 °C; avoid extremely hot or cold conditions during application and drying of the film.
- Do not mix with solvents, cements/additives.
- Do not apply in case of rain or conditions of high ambient humidity.
- Check that there is no water backpressure.
- Before backfilling, protect the waterproofing surface with suitable protective drainage layers (use draining material that does not subject the waterproofing to punching).
- 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: 5 and 30 L plastic pails.

Technical data:

MAIN CHARACTERISTICS		
Appearance		Thick paste
Colour		Brown
Shelf life in closed original packaging		12 months
Solid content (<i>m/m at 130 °C</i>)	EN ISO 3251	(60-70)%
Density (<i>at 20 °C</i>)	EN ISO 2811-1	(0.65-0.75) kg/L
pH (<i>at 20 °C</i>)		9-11
Complete drying time		4 days*
Application temperature		+5 °C - +30 °C

PERFORMANCE PROPERTIES - EN 15814 POLYMER MODIFIED BITUMINOUS THICK COATINGS FOR WATERPROOFING (PMCB)		
Crack Bridging Ability (at +4 °C)	EN 15812	Class CB2
Impermeability under pressure on 1 mm open crack	EN 15820	Class W2A
Resistance to compression	EN 15815	Class C2A
Resistance to rain	EN 15816	Class R2
Water resistance	EN 15817	No colouration of the water, no debonding from inlay
Flexibility at low temperature a (0 °C)	EN 15813	No cracks
Dimensional stability at high temperature (+70 °C)	EN 15818	No sliding or draining down
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.



THICKNESS/CONSUMPTION TABLE			
Load in accordance with DIN 18533	Dry layer thickness** (mm)	Wet layer thickness (mm)	Consumption (kg/m ²)
W1-E: Ground damp	3	3.7	2.5
W3-E: Pressure-free water on earth-covered ceilings.	4	4.9	3.3
W4-E: Splash water and ground damp at wall base	3	3.7	2.5

** Application carried out in 2 coats of product

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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