

AplicaPROOF HYBRID PB 1K

One-component polyurethane modified with bitumen waterproofing coating elastomeric



Bituminous polyurethane hybrid membrane



Elongation greater than 850%



Easy application

DESCRIPTION

Bitumen-modified polyurethane elastomeric coating, one-component, indicated for the long-lasting waterproofing of unexposed surfaces.

FIELDS OF APPLICATION

Non-exposed surfaces, with a requirement for resistance to standing water. Under tiles in wet rooms. Building foundations, basements, planters. Terraces and decks, under thermal insulation plates.

Surfaces require adequate preparation and primer prior to application of AplicaPROOF HYBRID PB 1K.

PRESENTATION

23 kg in metal container.

COLOURS

Black

EXPIRY

12 months, stored in its original sealed packaging, protected from frost, humidity.

PROPERTIES AND ADVANTAGES

Exceptionally high elasticity and crack bridging properties.
Excellent adhesion on various substrates.
High resistance to standing water and abrasion.
It retains its elasticity even at very low temperatures (down to -40°C).
Easy to apply (single component – cures with ambient humidity).
High chemical resistance.
Fast dry.

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Rev - 07/2024

TECHNICAL CHARACTERISTICS

Density (EN ISO 2811-1)	1,285kg/L (±0,5)
Elongation at break (ASTM D412)	850% (±20)
Tensile strength at max. load (ASTM D412)	2,19MPa (±0,2)
Adhesion strength (EN 1542)	>2N/mm ²
Shore hardness A (ASTM D2240)	28
Operating temperature	-40°C min. / +80°C max
Consumption	700-850 gr/m ² each layer

CURING DETAILS

Drying on the surface (+23 °C)	30 min
Drying time	12 - 24 hours (depending on conditions)
Dry to coat	1 - 48 hours (depending on conditions)

** Low temperatures and low humidity during application and/or curing extend the above times, while high temperatures and high humidity reduce them.*

SUITABLE PRIMERS ON COMMON SUBSTRATES

Substrate	Priming	Description - Details
Concrete, cement screed	AplicaPROOF PRIMER EP W	Epoxy primer water based

SPECIAL NOTES

- AplicaPROOF HYBRID PB 1K should not be applied in humid conditions, or if expected wet or rainy conditions prevail during the application or the period of curing of the product.
- The temperature of the substrate during application and curing must be at least 3 °C above the dew point to avoid condensation problems.
- The durability of the waterproofing system is reinforced by the increase in total dry film thickness, which can be achieved by applying an additional layer or layers.
- The consumption of each non-reinforced layer of AplicaPROOF HYBRID PB 1K should not exceed 1kg/m², to avoid the creation of craters and bubbles in the mass of the material.
- In cases of application under tiles, it is recommended to spread quartz sand during the application of the last layer of the product, still fresh, to promote the adhesion of the next layer of tile adhesive. After the hardening of AplicaPROOF HYBRID PB 1K, loose grains must be removed with a high suction vacuum cleaner. It is advisable to use an adhesive to elastic tiles (proposed indicative type C2TE S1).
- Especially in case of application on roofs and for the release of vapors of water trapped in the support, it is recommended to apply ventilation grilles throughout the surface every 20-25m².
- AplicaPROOF HYBRID PB 1K should not remain exposed to solar radiation.

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INSTRUCTIONS FOR USE

Substrate Preparation:

The surface must be stable, clean, dry, protected from rising humidity and free of dust, oil, grease and loose materials. Bad materials must be removed adhered surfaces and older coatings, and the surface must be thoroughly cleaned mechanically or chemically. Depending on the support, a adequate mechanical preparation, to smooth out irregularities, open the pore and create the optimal conditions for adhesion. Surfaces must have slopes appropriate and must be sufficiently flat, smooth and continuous (i.e., without holes, cracks, bays, etc.). Otherwise, they should be treated accordingly. (e.g. with a suitable putty).

Priming:

Prior to applying AplicaPROOF HYBRID PB 1K, the suitable primer, depending on the support. In the case of cementitious supports, proposes to apply the primer AplicaPROOF PRIMER EP W.

Application:

After priming the surface, AplicaPROOF HYBRID PB 1K is applied undiluted, in two or more coats, with a brush, roller or airless spray, after stirring well with a low speed electric stirrer. The drying time of each layer can be seen very affected by the prevailing environmental conditions (temperature and humidity). Depending on conditions, each subsequent coat of AplicaPROOF HYBRID PB 1K is Apply from 1 to 48 hours, undiluted, with a brush, roller or airless spray. Throughout the intersections of vertical and horizontal elements (as well as in all other corners), in construction details (such as around and inside drains of the roof), along joints, as well as when covering cracks, it is recommended that AplicaPROOF HYBRID PB 1K is previously applied locally, reinforced with the fabric of 100g/m² non-woven polyester (wet-on-wet application of two layers with the fabric placed in the middle). In cases of more demanding projects. Regarding mechanical resistance and crack bridging, it is recommended that AplicaPROOF HYBRID PB 1K is reinforced in depth with the non-woven fabric of polyester on the entire application surface.

NOTE

The recommendations for use are based on our knowledge and experience. The technical data have been obtained under normal laboratory conditions and may vary depending on the working conditions. As the conditions of application are beyond our control, the information in this sheet does not imply any liability on the part of the company.