



## FUTURCOAT-POLIUREA BITUMEN

### LIQUID POLYUREA-BITUMEN MEMBRANE FOR WATERPROOFING AND PROTECTION

Liquid polyurea-bitumen membrane with 1000% elasticity for waterproofing and protection. Fast-curing, cold-applied two-component product that forms a continuous, elastic membrane, with excellent mechanical and adhesion properties that make it resistant to weather, extreme temperatures and chemical agents.

#### PROPERTIES

Easy cold application without the need for heating.

Excellent adhesion on almost all types of surfaces.

Liquid product that adapts to any shape of roof.

Rehabilitation avoiding demolitions, large jobs or overweight.

Easy location and repair of breaks.

Excellent resistance to extreme temperatures (-40°C to + 80°C). Breaking temperature 150°C.

Excellent mechanical properties, high tensile strength and elasticity (1000%).

The membrane is completely waterproof, resistant to permanent contact with water, hydrolysis and microorganisms. Excellent resistance to chemical agents.

The resistance to water vapor is greater than 10 MN.s/g. therefore it constitutes a vapor barrier according to NBE CT-79.

#### PHYSICAL-CHEMICAL CHARACTERISTICS

<b>Appearance*:</b>	Viscous liquid
<b>Presentation:</b>	Packaging: Comp.A: 20 Kg. Comp.B: 20 ??Kg
<b>Color*:</b>	Black
<b>Density at 20 °C*:</b>	0.970 Kg/L (20 °C)
<b>Comp A* viscosity:</b>	1300 cP
<b>Viscosity comp B*:</b>	4300 cP
<b>Mixture viscosity*:</b>	3000 cP
<b>Flash Point:</b>	> 40 °C
<b>Touch dry:</b>	1-2 hours (25 °C, 55% RH)
<b>Repainted:</b>	6-24 hours
<b>Service temperature:</b>	-40 °C to +80 °C
<b>Breaking temperature:</b>	150 °C
<b>Hardness (Shore A):</b>	35
<b>Tensile strength:</b>	20 N/cm <sup>2</sup> (23 °C)
<b>% elasticity at 23 °C:</b>	>1000% (ASTM D412)
<b>Adhesion to concrete:</b>	> 20 Kg/cm <sup>2</sup>
<b>Resistance to hydrolysis (Sodium hypochlorite 5%, 10 days):</b>	No change in elastomeric properties



<b>Water absorption:</b>	> 0.9%
<b>Classification according to EOTA:</b>	
<b>Estimated minimum life cycle:</b>	W3 (25 years)
<b>Deck inclination:</b>	S1-S4 (<5% to >30%)
<b>Climatic zone:</b>	S (Severe Weather)
<b>Minimum support temperature:</b>	TL3 (-20 °C)
<b>Maximum support temperature:</b>	TH1-TH2 (30° to 60 °C)
<b>Complies with the requirements of the Technical Building Code (CTE) and with the EOTA Guides for this type of materials. Complies with the ASTM C836-95 standard Root resistant</b>	

\* Quality specifications.

## MODE OF USE

Before applying the product, check that the support is clean and free of traces of oil, grease, silicone, contaminating waxes or soil materials. If repair is needed, apply appropriate mortars. 2-component product: Mix the two containers (1/1 by volume) using a low-speed electric stirrer. Pot life: 30-45 min.

It can be applied with a roller, brush or notched trowel. It can be applied with Graco GH833 type airless, using an active carbon mask and taking into account the pot life of the product. For cleaning, always use FUTURSOLVENT 01. Yield is 1.5-2 Kg/m<sup>2</sup> in 1 or 2 layers. Repainted in 6-24 hours. In case of dilution, apply FUTURSOLVENT 01 in a maximum proportion of 10%. We recommend not allowing more than 48 hours to pass between coats, in which case an adherent primer should be used. On certain supports it may be necessary to apply a primer appropriate to the conditions of the support. (Consult technical service). If a primer is not required, we recommend applying a first coat diluted with 10% of FUTURSOLVENT 01 to increase adhesion and penetration to the support. If there are small cracks, the first coat diluted with sand can be applied to seal them. Singular points, supports with a lot of movement, active cracks, etc. must be reinforced. We recommend reinforcement with armor (FUTUR ARMOR POLYESTER 50 GR) or putties (FUTURMASTIC PU).

Limitations:

Not recommended for waterproofing pools in contact with chemically treated water. Not recommended for exposure to U.V. rays.

Stable stored in a dry place at a temperature of 5-25°C for 12 months in unopened original packaging.

## APPLICATIONS

Very useful in all types of construction companies, quick repair contracts, general masonry, community maintenance, building repair and restoration, etc.

Of application in:

Waterproofing and protection of roofs with heavy protection (bridge platforms and concrete slabs).

Covered with floor coverings.

Repairs to bathrooms, kitchens and wet areas.

Garden roofs.

Buried perimeter walls and underground structures.

Recommended supports: Concrete, cement, mosaic, fiber cement, tiles, acrylic rehabilitations and asphalt emulsions, EPDM, wood, rusty metal, galvanized steel.

For other supports we recommend carrying out tests to verify their adhesion.

The information and recommendations we provide are based on our Research and experience and we believe they are correct. Since the application of the products by our Clients is beyond our control, we cannot assume responsibilities arising from misuse of our products.