



FUTURCOAT POLIUREA

HOT APPLICATION POLYUREA FOR WATERPROOFING AND PROTECTION

Pure hot-applied polyurea with a solids content of 100% solids for application with a two-component spray gun. 1:1 volume product with excellent flexibility and a specially formulated cure for excellent adhesion.

Product recommended for industrial and commercial applications that require high resistance to abrasion and impact.

PROPERTIES

Fast curing.

Ultra-fast gel formation time (20-30 seconds).

Membrane without bubbles or defects.

100% solids. Without plasticizers.

Catalyst without toxic heavy metals.

The curing and formation of the membrane is not affected by humidity or other weather conditions.

Excellent resistance to extreme temperatures (-40°C to +80°C). Breaking temperature of 350°C.

Excellent mechanical properties, high resistance to tension, breakage and abrasion.

Good resistance to chemical agents.

Permeable to water vapor. Allows perspiration without moisture accumulation under the membrane.

Availability of primers for almost any type of media.

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance*:	Viscous liquid
Presentation:	225 Kg containers comp. A and 225 Kg comp. B
Color*:	Component A (Isocyanate): Yellow brown Component B (Polyol/Polyamine): Colorless opigmented
Density at 20 °C*:	Component A: 1,040 Kg/L (20 °C)Component B: 1,100 Kg/L (20 °C)
Dry membrane density:	1,000 Kg/L
Viscosity*:	Component A: 1000 cP Component B: 1500 cP
Gel formation time:	5-12 seconds
Passable:	5 minutes
Service temperature:	-40 °C to +80 °C
Breaking temperature:	350 °C
Hardness (Shore):	A: 90D: 40
Tensile strength:	150 Kg/cm2 (23 °C)
% elasticity at 23 °C:	>400% (ASTM D412)
Shear resistance:	4.5 N/mm
Transmission of water vapor:	0.8 g/m2.h
Classification according to EOTA: Complies with the requirements of the Technical Building Code (CTE) and with the EOTA Guides for this type of materialsComplies with ASTM C836-95 regulations No migration with drinking water	

* 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. The support must be dry, without residual moisture. We recommend using a primer appropriate to the characteristics of the support.

The product is for hot application: The containers of the two components must be heated to a temperature of about 25°C before mixing. Mix the two containers (1/1 by volume) using a low-speed electric stirrer.

Application with a Graco GH833 two-component gun, which maintains the product at 80°C, also in a hose and with a power of 230 psi (\pm 200 bar) 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 to 2 Kg/m².

Pot life: 5-12 seconds. Once the application is done, the product is walkable after 5 minutes.

In case of dilution, apply FUTURSOLVENT 01 in a maximum proportion of 10%. 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:

U.V. resistance can be increased. avoiding yellowing, change in tone or chalking by applying a layer of PROTEC PU (Pigmented) or FUTURPOL T (pigmented).

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 non-accessible roofs, limited to maintenance (Terraces, balconies and metal, aluminum or fiber-cement roofs, etc.).

Covers with heavy protection (bridge and concrete platforms, etc.).

Passable covers (Terraces, balconies, etc.).

Covered for intense traffic (parking lots, stations, stadium stands, shopping centers, etc.).

Retention tanks (water tanks and irrigation channels, etc.).

Green roofs (with anti-root resistance).

Buried and perimeter walls.

Protection of polyurethane or polystyrene foam.

Sealing cementitious surfaces, etc.

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.