



FUTURPOL-PU

LIQUID POLYURETHANE MEMBRANE FOR PROTECTION AND WATERPROOFING

One-component product that dries by ambient humidity, forming a continuous, elastic membrane, with excellent mechanical and adhesion properties that make it resistant to weather, extreme temperatures and chemical agents.

PROPERTIES

Easy application and excellent adhesion.
Adapts to any shape of cover.
Allows rehabilitation, avoiding demolitions or overweight.
Easy location and repair of breaks.
High resistance to climatic agents, weathering and UV.
Excellent resistance to extreme temperatures (- 40°C and + 80°C).
High resistance to abrasion and tension.
Great elasticity >600%.
Resists permanent contact with water, hydrolysis and microorganisms.
High chemical resistance.
Once cured, the membrane allows the diffusion of water vapor (Perspiration).

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance*:	Viscous liquid
Presentation:	25 Kg metal containers
Color*:	White, Grey, Red, Green
Density at 20 °C*:	1,300-1,400 Kg/L
Viscosity:	3000-6000 cP
Touch dry:	6 hours (25 °C, 55% RH)
Repainted:	6-24 hours
Service temperature:	-40 °C to + 80 °C
Breaking temperature:	200 °C
Hardness (Shore A):	70
% elasticity at 23 °C:	> 600%
% elasticity at -25 °C:	450%
Tensile Strength at 23 °C:	55 Kg/cm ²
Fatigue movement resistance:	Pass
Vapor transmission resistance:	0.8 g/m ² .h (water vapor permeability)
Adhesion to concrete:	> 20 Kg/cm ²
QUV (Accelerated aging 4h UV, 60°C, 4h COND at 50°C):	2000 hours pass

* 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. It is applied with a brush, roller or airless spray gun (Type Graco GH833). Always use a suitable solvent for cleaning. The application rate is 1.5 to 2 Kg/m², applicable in 1, 2 or 3 layers. (Obtaining 1.4 mm membranes). In case of dilution, apply only a suitable solvent until the required viscosity is achieved with a maximum proportion of 10%.

We recommend mixing the contents of the container with a low-speed electric stirrer to avoid including air in the product.

For application in one layer, the notched trowel with serrations of about 3mm, deaerator and accelerator will be used. Pot life (life time of the mixture) with accelerator of approx. 30 minutes. The repainting time is 6-24 hours, or about 3-4 hours if our ACTIVATOR P.U. accelerator is used. We recommend not allowing more than 48 hours to pass between coats, in which case a universal primer should be used. We recommend using a primer appropriate to the characteristics of the support. Let dry completely before applying (Approx. 4 hours). Singular points, supports with a lot of movement, active cracks, etc. must be reinforced. We recommend reinforcement with FUTUR POLYESTER ARMOR 50 gr or FUTURAMASTIC ACTIV PU putties. To increase abrasion resistance and have a walkable system or to increase resistance to U.V. (avoiding yellowing, chalking or changes in tone) apply pigmented FUTURPROTECT PU varnish. For a non-slip application, add White Corundum to the last application layer. Once the container is opened, we recommend its complete consumption. Stable for 12 months from its manufacturing date, in its original, well closed and undamaged container. Store in a dry and cool place at temperatures between +5°C and +25°C.

APPLICATIONS

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

Of application in:

Waterproofing and protection of non-accessible roofs, limited to maintenance (terraces, balconies and metal, aluminum or fiber cement roofs).

Covers with heavy protection (Bridge platform and continuous concrete plates).

Covers with glued coatings (bathrooms, kitchens and wet areas, etc.).

Passable covers (Terraces, balconies, etc.).

Areas with intense traffic (parking lots, stations, stadium stands, shopping centers, etc.).

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

Garden roofs. Buried walls.

Protection and encapsulation of asbestos, protecting from the migration of asbestos particles.

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