



FUTUR-PROTECT-E PU

ALIPHATIC, ELASTIC, TRANSPARENT AND GLOSSY POLYURETHANE VARNISH

Aliphatic polyurethane varnish for the protection of pavements and waterproofing. One-component product that dries due to environmental humidity, forming a hard, strong, continuous, elastic film, with excellent mechanical and adhesion properties that make it resistant to weather, extreme temperatures, and UV rays. and chemical agents.

PROPERTIES

100% aliphatic product: Does not yellow, does not change tone or chalk.
Great elasticity with high resistance to abrasion, tension and breakage.
Good adhesion to concrete with high mechanical resistance, resistance to abrasion and chemical agents.

Highly hydrophobic finishes (repellent to humidity and climatic agents).
Cured by ambient humidity.

Resistant to low temperatures, weather and extreme temperatures.
Liquid product that adapts to any shape of roof.

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance*:	Liquid
Presentation:	Metallic containers 4 and 20 kg containers Shiny transparent color. Can be pigmented with suitable pastes
Chemical nature:	Aliphatic polyurethane
Density at 20 °C*:	1,000 ± 0.050 Kg/L (20 °C, ASTM D1475)
Viscosity:	500 cP
Touch dry:	6-8 hours (25 °C, 55% RH)
Repainted:	24 hours
Service temperature:	-40 °C to +80 °C
Ambient temperature:	> +8 °C, < +40 °C
Relative humidity:	< 80%
Shore D Hardness:	40
Tensile strength:	400 Kg/cm ² (23 °C)
Thermal resistance:	OK (100 days at 80°C, EOTA TR011)
Transmission to water vapor:	0.8 g/m ² .h
QUV:	Passed 2000 h (Weather resistance, 4 h, UV 60 °C and 4 h COND 50 °C)
Water absorption:	< 1.4%
Complies with the requirements of the Technical Building Code (CTE) and the EOTA Guides for this type of materials	
CHEMICAL RESISTANCE DATA	



8% solution in potassium hydroxide, 10 days at 50 °C	No changes in elasticity
Solution at 10% Sodium hypochlorite, 10 days	No changes in elasticity

* 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 repair mortars.

It is necessary to start from a porous concrete support, without grout and free of curing liquids. Minimum compressive strength of concrete: 15 N/mm². Minimum tensile strength of concrete: 1 N/mm².

If in doubt, carry out a test before application.

In most applications it does not require a primer, on vitrified supports apply FUTURPRIMER T PU.

Before applying the product to the work surface, prepare a primer by diluting the product to 10% with FUTURSOLVENT 01. Spread the mixture well over the entire surface.

Applied as a sealant for FUTURPROTECT products, it must be pigmented with appropriate pastes (maximum 10%) or in a proportion of 4 kg of FUTURPROTECT-E PU for every 1 kg of FUTURPROTECT. Do not leave it more than 72 hours after applying the product. Apply with a brush, roller or airless spray in thin layers with an approximate consumption of 200-500 g/m². The final consumption will depend on the porosity and roughness of the support.

Repainting will be done once the previous layers have dried, approximately 6 hours. Do not repaint after 6-24 hours. Do not leave more than 48 hours between coats. Apply in very thin layers.

For concrete sealing the consumption would be 0.100-0.150 Kg/m². For sealing FUTURPROTECT applications the consumption would be 0.100-0.150 Kg/m².

Touch dry: 6-8 hours

Repainting: 24 hours

Data at ambient temperature of +25 °C and 55% relative humidity.

For non-slip finishes, corundum must be added to the product in the last layer (choose granulometry depending on the final use).

Maintenance and cleaning: To maintain the appearance of the floor after application, all spills must be removed immediately after they have occurred. The floor must be cleaned regularly using rotating brushes, high-pressure cleaners, vacuum cleaners, using neutral detergents and appropriate waxes.

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.

Application in closed areas must be carried out ensuring proper ventilation during application and 48 hours after. Do not exceed the maximum consumption because it may affect its adhesion and durability. Avoid the formation of puddles of the product.

In applications exposed to U.V. rays, yellowing may occur. For applications with chemical resistance, consult the technical department.

Incorrect treatment of cracks and singular points can lead to a reduction in the useful life of the pavement.

To clean materials and utensils, use FUTURSOLVENT 01 before the product hardens. Once the product has hardened it can only be removed by mechanical means.

APPLICATIONS

Very useful in all types of construction companies, quick repair contracts, general masonry, community



maintenance, building repair and restoration, high-resistance epoxy industrial flooring, etc.

Application as:

Finishing for the protection (increasing resistance to abrasion and UV) of FUTURPROTECT waterproofing systems (always pigmented) see also FUTURPROTECT PU for floor protection.

Protection of concrete and synthetic coatings to which it provides resistance to humidity, climatic agents and chemical agents.

Supported media:

Concrete, cement, ceramics, synthetic materials (type polyurethanes), etc. Limitations:

Not recommended for waterproofing pools in contact with chemically treated water.

Do not apply in thick layers.

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.