

FUTURPOL-AQUA PU2K

TIXOTROPIC WATER-BASED ALIPHATIC TWO-COMPONENT LIQUID MEMBRANE FOR WATERPROOFING AND PROTECTION

Two-component water-based polyurethane product, whose exceptional thixotropic properties make it especially suitable for waterproofing horizontal and vertical supports. Once dry, the product forms a 100% aliphatic, elastic, jointless waterproofing membrane with good resistance to chemical agents.

PROPERTIES

Thixotropic liquid membrane without sagging on vertical surfaces.

Great elasticity of the membrane allowing it to absorb contractions and expansions.

Provides continuous elastic membranes without joints or welds.

Completely Waterproof. Resistant to standing water.

Prevents cracks.

Water-based product for easy application and repair.

Colorable with water-based pigment pastes.

High resistance to chemical agents, meteorological changes, aggressive environments and temperatures without altering its properties.

Permeable to water vapor. The membrane that forms once the product is dry breathes, preventing the accumulation of water under the membrane.

Excellent resistance to the environment and sun exposure (U.V.). The white color acts as a solar reflector, reducing the interior temperature of the building considerably.

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance*:		Thixotropic viscous liquid	
Color*:		White	
Odor:		Characteristic	
Density at 20 °C*:		1,200-1,350 Kg/L	
Viscosity *:		4000-5000 cP	
Total solids content:		70%	
Required application temperature:		5-35 °C	
Data of the cured product after application:			
Shore A Hardness:		75-85	
Tensile Strength at 23° C:		7-80 MPa	
Percentage of Elasticity at 23°C:		>300%	
Water absorption:		< 4%	
Service temperature:		-20 to 90 °C	
Performance:		First layer: 1.5 Kg/m2. Second layer: 1.1-1.2 Kg/m2	
QUV (weather resistance):		2000 h passes (4 h UV, 60 °C UVB lamp) (4 h COND, 50 °C)	
Solubility:		Soluble in water	
Presentation:	Component A		Component B

	25g	2.5 Kg
	120g	12 Kg
Complies with the requirements of the Technical Building Code (CTE) and the EOTA Guides for this type of materials ETAG 005 part 6 data:		
Reaction to fire	DIN EN ISO 11925-2, DIN EN 13501-1	Class E
Transmission of water vapor	DIN EN 1931, 23 °C-0/75 RH	Water vapor diffusion: V=6.85 g/(m ² .d) Equivalent thin layer water vapor diffusion: Sd= 5.2 m μ = 3487 μk = 3234 μg = 3626
Resistance to chemical agents:		
Sodium hypochlorite 5%, 10 days, 25 °C	OK	
1N hydrochloric acid solution (pH 05), 10 days, 25 °C	OK	
5% Isopropyl Alcohol Solution	No permanent swelling	
15% Potassium Hydroxide Solution, 10 days, 25 °C	OK	
5% sulfuric acid solution, 10 days, 25 °C	OK	
10% Phosphoric Acid Solution, 10 days, 25 °C	OK	

* Quality specifications.

MODE OF USE

Apply with a brush, roller or airless spray in 2 coats.

Before applying, shake the product well and check that the support is clean, dry, without residual moisture and as solid as possible. In case of loose material or in poor condition, use appropriate mortars for repair.

Add component A to component B and mix gently with a low speed electric stirrer (300 rpm).

It can be diluted with 5-10% water to adjust viscosity. For the finishing coat, apply directly as it comes in the container, without dilution.

Concrete support requirements: Hardness: R28, 15 MPa. Ambient humidity Application temperature 5 to 35 °C.

Relative humidity: To eliminate cracks and imperfections, use the FUTUR POLYESTER ARMOR primer once applied. Fix the reinforcement with the primer and apply the necessary layers of undiluted product until the performance is complete.

Brush or roller application:

First layer performance: 1.5 Kg/m² with FUTUR POLYESTER ARMOR.

Second layer performance: 1.1-1.2 Kg/m² with FUTUR POLYESTER ARMOR.

When applied with an Airless spray, the minimum yield per layer will be 1 Kg/m². Total consumption: 2.7 Kg/m².

To clean utensils, use water once the application work is finished.

Store in its original container away from frost, direct sun and extreme temperatures. Do not apply at ambient temperatures below 5 °C or above 35 °C. Do not apply when there is a risk of rain or wet weather. Apply in places with good air renewal. In case of insufficient ventilation, use an appropriate protective mask.

APPLICATIONS

Waterproofing, protection of horizontal and vertical surfaces of concrete, fiber cement, cement tiles, wood, rusty metal, galvanized steel, etc.

Allows the protection and waterproofing of polyurethane foam, terrace coverings, applications under flooring in humid areas, etc.

Very useful in all types of construction and masonry companies, applicators, painters, maintenance personnel of large communities, repairs of hotels, residences, social centers, shopping and sports centers, etc.



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