



FUTUR-FLOOR PU2K AUTONIVELANTE

SELF-LEVELING POLYURETHANE FLOORING 2 COMPONENT FLEXIBLE AND SOLVENT-FREE

Self-leveling 2-component polyurethane flooring, solvent-free and slightly flexible with excellent mechanical and adhesion properties.

PROPERTIES

100% solids. Does not contain solvents. No strange smells. Free of emissions into the atmosphere. Good adhesion to concrete with high mechanical resistance, resistance to abrasion and chemical agents. Suitable for indoor applications. Excellent resistance to extreme temperatures (-40 °C and +90 °C). Breaking temperature 200 °C. Provides completely waterproof floors, resisting permanent contact with water, hydrolysis and attack by microorganisms. Once the pavement is cured it is not toxic.

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance*:	Liquid
Presentation:	Metal containers Component B, pigmented according to RAL chart
	20 Kg containers:
	Component A: 45 Kg Component B: 15.5 Kg
Mixing ratio:	Component A: 4.5 parts. Component B: 15.5 parts
Chemical nature:	Polyurethane
Density at 20 °C*:	(20 °C, ASTM D1475)
Viscosity:	3000 cP (ASTM D2196-86, at 25 °C)
Solid content:	100%
Pot Life:	20-30 minutes (25 °C)
Touch dry:	2-3 hours
Repainted:	8-24 hours (< 48 hours)
Total curing:	7 days
Support temperature:	> +10 °C, < +35 °C
Ambient temperature:	> +8 °C, < +30 °C
Service temperature:	>-40 °C, <80 °C
Relative humidity:	< 85%
Support humidity:	< 4%
Tensile strength:	>30 N/mm ²
Elasticity at 23 °C:	50%
Wear resistance:	120 µm (UNE-EN 13892-4:2003)
Impact resistance:	>4 Nm (UNE EN ISO6272-4:2004)



Adhesion strength:	>4 N/mm2 (Pull-out test, ASTM D4541)
EN-13813 data: CE marking	
Fire behavior:	F
Emission of corrosive substances:	SR
Water vapor permeability:	NPD
Wear resistance:	AR1
Adherence:	B2.0
Shore D Hardness:	>60
Acoustic insulation:	NPD
Impact resistance:	> IR4
Thermal resistance:	NPD
Chemical resistance:	NPD
Fire classification:	M3

* 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.

Apply at room temperature between +8 °C and 30 °C. The temperature of the support must be between +10 °C and 35 °C. The support must be dry and with relative humidity. It is important to control the dew point to prevent condensation from occurring and avoid whitish areas on the coating.

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.

Priming: Prime the support with FUTURPRIMER UNIVERSAL.

Finishing: Apply 2 coats of FUTURFLOOR PU2K SELF-LEVELING.

Mix the two components in the recommended proportion of 4 parts by weight of component A for every 77 parts. Component B: 23 parts weight

Beat component A well in its container, then add component B and beat with an electric stirrer (300-400 rpm) for a minimum of 2 minutes until obtaining a homogeneous product. If overmixed, occluded air bubbles may appear. Once the two components are mixed, it is ready for use. The open application time (Pot Life) is 20-30 minutes at 25 °C and Apply with a notched trowel and spiked roller. Apply the product by pouring. Pour continuously to avoid the formation of air pockets until the desired thickness is achieved.

Application rate: 1.5 Kg/m² in 1 mm thick layers. The final consumption will depend on the porosity and roughness of the support.

Repainting will be done once the previous layers have dried, approximately 8-24 hours. Do not repaint after 48 hours.

Touch dry: 2-3 hours

Pedestrian traffic: 24 hours

Light traffic: 2 days

Total curing: 7 days

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

For non-slip finishes, dusted silica sand with a granulometry of 0.4-0.9 Kg/m² or higher should be added to the product depending on the degree of slip desired.

It can also be added with 0.2-0.4 mm dry silica sand to apply as a regularization layer and as self-leveling layers (mixing proportions: 2 parts of resin for every 1 part of sand, by weight).

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. Once the two components have been mixed, the mixture obtained must be applied, respecting the pot-life.

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. It is recommended to protect with a topcoat of pigmented aliphatic polyurethane.

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 001 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, masonry in general, community maintenance, repair and restoration of buildings, industrial flooring, etc.

Application as:

Treatment, decoration and protection of pavements, floors and rehabilitation of: Industrial Floors, Food Floors, Chemical resistance floors, floors resistant to vehicle traffic (light traffic), industrial warehouses, warehouses, Shopping Centers, Cold Rooms, etc.

Dust and anti-wear protection of concrete.

Compatible with concrete floors, mortar, mosaics, ceramics, tiles, etc.

Floor covering in poorly ventilated areas.

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.