FUTURPRIMER UNIVERSAL

SOLVENT-FREE TWO-COMPONENT POLYURETHANE PRIMER

Two-component polyurethane, solvent-free, especially indicated to increase the adhesion of polyurethane and epoxy-based systems. Fast curing, solvent-free, non-toxic and 0 VOC material.

PROPERTIES

Excellent adhesion on almost all supports.
Fast curing.
Especially suitable for cold climates or conditions of low environmental humidity.
Solvent free.
Odorless, safe, non-flammable product (VOC 0 g/L).
Suitable for application in closed places.
Cured at low temperature and in wet concrete.
Highly hydrophobic.

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance*:	Liquid
Presentation:	Metal containers Component A: Brown Color. Component B: Transparent. **5 Kg containers** **Component A: 16 Kg** — Component B: 2.4 Kg **20 Kg containers:** **Component A: 8 Kg** — Component B: 12 Kg
Color:	Colorless
Chemical nature:	Solvent-based polyurethane
Density at 20 ºC*:	Comp. A: 1.2 Kg/L | Comp. B: 1 Kg/L (20 ºC, ASTM D1475)
Viscosity:	Comp. A: 200 cP | Comp. B: 3500 cP (25ºC, ASTM D2196-86)
Pot Life:	20 minutes (20 ºC)
Touch dry:	4 hours
Repainted:	4-24 hours
Total cure:	7 days
Support temperature:	> +10 ºC, < +30 ºC
Ambient temperature:	> +10 ºC, < +30 ºC
Relative humidity:	< 85%
Support humidity:	Accepts humidity
ASTM D4541 adhesion test:	
Galvanized steel:	> 10 mPa (Adhesive breakage)
Concrete:	> 4 mPa (Concrete failure)
Wet concrete:	> 4 mPa (Concrete failure)

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Marble:	> 5 mPa (Adhesive breakage)
Membrane with Futurprimer Universal:	> 5 mPa (Adhesive breakage)
EN-13813 data: CE marking	
Fire behavior:	NPD
Emission of corrosive substances:	NPD
Water vapor permeability:	NPD
Wear resistance:	NPD
Adherence:	NPD
Acoustic insulation:	NPD
Acoustic absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

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 +10 ºC and 30 ºC. The temperature of the support must be between +10 ºC and 30 ºC. 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, free of curing liquids, free of dust, level with porosity and dry. 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.
Mix the two components in the recommended proportion of 1 part by weight of component A for every 1.5 parts of component B.
Shake well before use with a low-speed electric stirrer (300-400 rpm) to avoid including air in the product for a minimum of 2 minutes.
It can be diluted between 5-10% with FUTURSOLVENT 001. In this case it will not be a product with zero VOC. If diluted, apply in open or well-ventilated areas.
It is applied with a brush, roller or airless spray gun (Type Graco GH833).
Apply in layers with a final consumption of 200 g/m2 per layer. Once the container is opened, we recommend total consumption.
Carry out repainting before the previous layer dries to increase its adhesion (4-24 hours). Approximate times affected by changes in environmental conditions, temperature and humidity.
Touch dry: 4 hours
Pedestrian traffic: 24 hours
Light traffic: 2 days
Total curing: 7 days
Data at ambient temperature of +25 ºC and 55% relative humidity.
Sprinkling of mineral fillers: Quartz (0.4-0.8) can be sprinkled to increase the adhesion surface. To regularize supports, fine aggregate can be introduced into the product and subsequently sprinkled to saturation.
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.

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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 +5ºC and +25ºC.
Application in closed areas must be carried out ensuring proper ventilation during application and 24 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 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.
Supported media:
Concrete, metal supports including galvanized, aluminum, marble, asphalt and asphalt membranes.
Curing on the Polyurethane membranes after more than 48 hours from the application of the 1st layer.
On top of dry non-porous concrete we must dilute it with FUTURSOLVENT 001 between 5-10% (In this case it would not be a VOC Zero product).
For other supports such as plastic materials, we recommend carrying out tests to verify their adhesion.
It can be used to impregnate reinforcing geotextiles and facilitate their installation.

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