



PRIMER PU-1050 - TWO COMPONENT, POLYURETHANE RESIN AS A PRIMER

Two component, low viscosity 100% solid polyurethane resin. It has been specifically designed to increase bonding and improve the surface leveling prior to the liquid waterproofing membranes TECNOCOAT or DESMOPOL, and also for flooring systems TECNOTOP and TECNOFLOOR.



USES

For application in the following situations:

- Increase adherence and improve the planimetry of the surfaces such mortar, concretes
- As an adhesion promoter on waterproofing old membranes overlappings

NOTE: call our technical department about the application to other substrates or scopes of use

Density	1.11 ±0.05 g/cm ³
Viscosity	700±100 cps
Pot-life	±50 minutes
Dry time	±3 hours
Application method	By brush, by a short nap acrylic wool roller



GENERAL SPECIFICATIONS

- Two component, 100% solids content polyurethane resin, solvent-free, odorless, which once dry forms a continuous film in concrete or mortar substrates increasing adherence for liquid waterproofing and flooring systems
- It holds a CE marking on the basis of a statement made DoP Declaration of Performance (DoP) under the EN-1504-2:2004 table 5
- It must be applied in sound and resistant substrates, with no presence of humidity/water on the surface whether at the time of application or subsequently (pressure from phreatic water level, damp-water).
- Possibility of applying in combination with mineral fillers (siliceous aggregate) on very irregular substrates or to improve mechanical adhesion in the event of rain.
- At extremely low temperatures or in extreme weather conditions, consult the specification sheet of our alternative product Primer PUC-1050.
- No dilution needed at all



PACKAGING

Metallic pail kit: 5 kg each.

STORAGE AND SHELF LIFE

12-months shelf life is stored in original containers in a dry environment at a temperature between 5-35 °C (41-95°F). Keep away from direct sunlight, extreme heat, cold or moisture. Once the tin has been opened, the product must be used.

APPLICATION METHOD

Concrete substrate: Concrete should be completely cured (concrete curing takes 28 days) or, in any case, the maximum level of humidity allowed for the substrate should be verified, depending on the primer used. Concrete must be strong, cohesive and dry, having a correct planimetry, high surface resistance, eliminating laitance, graise, oils or release agents, without excessive irregularities. Therefore, the previous action of sanding, polishing, milling or shot-blasting will be assessed by the applicator to achieve a preparation of the substrate according to ICRI Guide 03732, CSP values 3 to 5. Existing holes or areas with a lack of material must be repaired using some of our epoxy resins: Primer EP-1020/Primer EP-1010. Mastic PU must be used on fissures or small cracks on the surface. Joint filling for installation, work and consolidation of surfaces. General cleaning of the substrate, removing existing dust, dirt, grease or efflorescence. The substrates must be resistant and cohesive. Mix the two components using a mechanical shaker for approximately 4-5 minutes (medium speed). Apply the resin in two or more thin crossed coats until the desired planimetry is achieved. (always wait for drying before recoat). Consumption around 150 and 250 g/sqm depending on the roughness of the substrate. Apply as many coats as the substrate needs. Always respect the recoat time between coats or between different materials. In case of rain, apply a thin layer, consumption approx. 100-150g/sqm. In applications of repairs/overlaps/joining bridge between already cured membranes, its consumption could be lower.

NOTE: For other types of substrates, weather conditions or the substrate to be applied, consult our technical department.

HEALTH AND SAFETY

Respiratory Protection: When handling or spraying use an air-purifying respirator. Skin protection: Use rubber gloves, remove immediately after contamination. Wear clean body-covering. Wash thoroughly with soap and water after work and before eating, drinking, or smoking. Eye / Face: Wear safety goggles to prevent splashing and exposure to particles in the air. Waste: Waste generation should be avoided or minimized. Incinerate under controlled conditions in accordance with local laws and national regulations. Re-occupancy of the work site without respiratory equipment is minimum 24 hours providing the correct ventilation for the area sprayed. Contractors and applicators must comply with all applicable and appropriate guidelines for storage and safety guidelines. These safety recommendations for handling, are necessary for the implementation process as well as in the pre and post, on exposure to the loading machinery. Dispose waste in accordance with star or/and local regulations.



TECHNICAL AND CHEMICAL PROPERTIES

PROPERTIES		VALUE
Density	ISO 1675	1.11 ±0.05 g/cm ³
Viscosity	ISO 2555	700±100 cps
Density compounds A/B	ISO 1675	1.15 ±0.05 g/cm ³ / 1.12 ±0.08 g/cm ³
Viscosity compound A/B	ISO 2555	50~400 cps /400~950 cps
Mixing ratio (in volume)		1:1
Solids content	ISO 1768	100%
VOC content		0 g/l
Determination of adhesion by direct pull-off on concrete (yield 300 g/sqm)	UNE-EN 1542	3.6 MPa
Vapor water permeability	UNE-EN ISO 7783 (yield 300 g/sqm)	Sd=4.9 (Class I) / 4.2 g/sqm/day / μ=40,788
Liquid water permeability	UNE-EN 1062-3 (yield 300 g/sqm)	W=0.0001 kg/(sqm * h ^{0,5}) (PASS, <0,1)
Reaction to fire	EN-13501-1:2007+A1:2010	Efl
Times: pot-life / dry / recoat		±50 minutes / ±3 hours / 3~48 hours
Application temperature range (substrate / environment)		5~35/ 5~30°C (41~95/41~86°F)
Use temperature Range (environment)		-20~80 °C (-4~ 176°F)
Maximum moisture (substrate/ environmental)		±4% / ±80%

Results performed in the laboratory at 23°C (73°F) and 50% RH, under controllable conditions. These values may vary depending on the application, climatology, or substrate conditions.

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