PRIMER EP-1010 - TWO COMPONENT, FILLERIZED EPOXY RESIN AS A PRIMER

Two component, 100% solids content epoxy resin. It is specially designed to increase adhesion to substrates and improve planimetry for liquid waterproofing systems TECNOCOAT and DESMOPOL and flooring systems TECNOTOP and TECNOFLOOR.

CE

USES

For application in the following situations:

- Increase adhesion on on concrete, mortar, or ceramic tiles supports.
- To be used as a resin mortar for concrete substrate or joints of ceramic tiles

NOTE: call our technical department about the application to other substrates or situations

Density	1.50± 0.1 g/cm³
Viscosity	±2,500 cps
Pot-life	±30 minutes
Dry time	4~5 hours
Application method	By short nap acrylic wool, notched trowell

GENERAL SPECIFICATIONS

- Two component, 100% solids content epoxy resin, solvent-free, odorless, which once dry forms a continuous film in concrete, mortar or ceramic 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).
- Its consumption depends on the situation of the substrate, irregularities that it presents or level of planimetry. It can be applied in a thick layer, self-leveling system.
- Although it already incorporates charges in component A, it is possible to apply it in combination with mineral charges (silica aggregate) on very irregular substrates or to improve mechanical adhesion in the event of rain.
- No dilution needed at all.

PACKAGING

Metallic kit pails: 16 kg+ 4 kg.

STORAGE AND SHELF LIFE

12-months shelf life is stored in original containers in a dry environment at a temperature between 5-35 ºC *(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, mortar or ceramic 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). Extends in a single coat, using a notched trowel or rubber lip in a single thick coat (can also be rolled out with a roller). Consumption around 300 and 500 g/sqm. For applications on highly absorbent substrates, apply a first coat of sealer with a short-nap roller (150-200 g/sqm) to avoid bubbling. Also can be applied in a single coat, mixed with Silica Sand (mixing ratio in weight 1:4), spreading using a notched trowel or rubber lip in a single thick coat. Consumption around 200 and 400 g/sqm. In case of rain, apply a thin layer, consumption approx. 100-150g/sqm.

NOTE: For other types of substrates, weather conditions or final use, 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	1.50 ±0.1 g/cm³
Viscosity ISO 2555	± 2,500 cps
Viscosity per compounds A/B ISO 2555	3,000~7,000 cps / 150~400 cps
Density per compounds A/B ISO 1675	1.65 ±0.01 g/cm³ / 1.03 ±0.1 g/cm³
Mixing ratio (in weight)	4:1
Solids content ISO 1768	100%
VOC content	0 g/l
Shore Hardness A DIN 53.505	>75
Determination of adhesion by direct pull-off to concrete UNE-EN 1542 *(yield 300 g/sqm)*	3.4 MPa
Vapor water permeability UNE-EN ISO 7783 *(yield 300 g/sqm)*	Sd=53.6 (Class III) / 0.3 g/sqm/day / μ=446,819
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	±30 minutes / 4~5 hours / 4~48 hours
Application temperature range (substrate and environment)	5~35ºC / 5~30ºC *(41~95ºF / 41~86ºF)*
Use temperature range (environment)	-20~80 ºC *(-4~176ºF)*
Maximum moisture (substrate/ environmental)	8%(±0.3)/ 80%(±5)

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

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