



## PRIMER EP-1020 - TWO-COMPONENT, 100 % SOLIDS, EPOXY RESIN AS A PRIMER

It's a two-component, 100% solid content, high build low V.O.C. self-priming aluminium flaked anti corrosive epoxy resin-based. Specially designed as a primer to increase adherence and repair substrates on mortar, concrete or ceramic tiles for flooring and waterproofing systems TECNOFLOOR, TECNOTOP, TECNOCOAT, and DESMOPOL.

## USES

Epoxy resin to be used in the following situations in TECNOFLOOR, TECNOTOP, TECNOCOAT and DESMOPOL systems:

- Specially designed to increase the adhesion on concrete, mortar, or ceramic tiles supports.
- Self-leveling application (thick coat)
- Also used as a resin mortar adding SILICA SAND, or calcium carbonate for concrete support preparation

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

density at 23°C	1.05 g/cm³
viscosity at 23°C	250 cps
pot life at 23°C	± 50 minutes
tack free time at 23°C	±60 minutes
approx. coat consumption	±500 g/m²
mix ratio	2,20:1
adhesion on concrete	> 2 N/mm²(MPa)



## GENERAL FEATURES

- High fluidity that allows for a quick and easy application of the product.
- High penetration and sealing on support.
- Excellent adhesion to concrete.
- Epoxy resin 100% solids, Odorless, and solvent-free.
- May yellow on outdoor exposure, due to the action of UV rays, to be an epoxy.
- Do not add water or any solvent.
- Depending on the state of the surface to be treated, existing unevenness or plane level, yield, used like a PRIMER -EP1020 can vary between 200-700 g/m² in several layers. Thus, usual coverage per coats: 1.5-2 m² /kg (±500 to 700 g/m)
- The performance, used as a filling mortar is highly variable. Using with SILICA SAND (mix ±1:4), or calcium carbonate (mix ±1:2)
- **It can be applied on surfaces with a maximum surface humidity of 4%.**
- After 7 days, coming to a cured material total. Preserve the direct contact with water or other reagents until this moment.
- Do not apply at temp. below. 10 °C or more than 30 °C, or with relative moisture more than 80%. Do not use hot air guns that burn fossil fuels. These conditions facilitate the appearance of white spots. Use electric heaters.



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- The PRIMER EP-1020 should be applied in dry conditions avoiding the presence of humidity or water coming from the surface to be coated or the substrate, whether at the time of application or subsequently (pressure from phreatic water level).
- The component B is red-colored, to mix with the comp. A turns orange. (in the mixed product, doesn't see this orange color).

## PACKAGING

Kit metal tins: 10,3 kg.+4,7kg.

## SHELF LIFE

12 months for each product at temperatures between 5° C and 35° C, provided it is stored in a dry place. Once the tin has been opened, the product must be used immediately.

## APPLICATION METHODOLOGY

### Support

- The concrete slab must be clean, compact, and free of loose particles, grease, oil, cement laitance, curing liquids, or other treatments such as silicones or damaged paintings.
- The surface must be with the pore opened, it is essential to start work with treatment and subsequent shot blasting dust sucked. sanding, therefore, is not recommended rough and open-pored surface ensuring anchoring the primer is sought.
- The concrete has to be more than 28 days old or maximum moisture content of 4%.
- Do not apply PRIMER EP-1020 on concrete with exudations of water or in areas where the inside water may affect the adhesion of the system components.
- Both temperature, environmental and support, should be at least 3 higher than the dew point at the time of the application, so the risk of condensation is reduced.

### Mixing

- PRIMER EP-1020 comes in pre-weighed containers suitable for subsequent mixing proportions, partial mixtures is not recommended.
- Pour the contents of Comp. II on Comp. I, and mix with a drill fitted with a stirrer at low speed until achieving a homogeneous product. Special emphasis on shaking the walls and bottom of the container.
- In the case of adding aggregate, make the mixture described above first and, once made, add the aggregate to obtain a homogeneous product.
- For dilution, add 8% solvent DESMOSOLVENT. Mixing the drum with medium speed mechanical

## APPLICATION METHODS

- Apply PRIMER EP-1020 with the help of a short-haired roller on the support. applying a second layer will be necessary for very absorbent substrates.
- Self-leveling application, using a squeegee or a trowel(thick coat )
- Consumption is 0.200 - 0.400 kg / m<sup>2</sup> depending on the roughness of the substrate.
- For repair, the concrete surfaces, use this epoxy resin mixed with SILICA SAND (mix ratio  $\pm$  1: 4) or calcium carbonate mix ratio( $\pm$  1: 2) as a mortar, applied by notched trowel or roller.
- In liquid condition, clean up with DESMOSOLVENT. Once cured, clean up only by mechanical means.

## HANDLING



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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.

- 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.

Anyway, consult the material and safety data sheet of the product (MSDS) or contact our technical department.

## PROPERTIES

PROPERTIES	VALUE
Density at 23°C ISO 1675	1.05 g/cm <sup>3</sup>
Viscosity at 23°C ISO 2555	250 cps
Density comp. A at 23°C ISO 1675	1.25 g/cm <sup>3</sup>
Density comp. B at 23°C ISO 1675	1.10 g/cm <sup>3</sup>
Viscosity comp. A at 23°C ISO 2555	500 - 350 cps
Viscosity comp. B at 23°C ISO 2555	250 - 450 cps
Mixing ratio	2,20:1
Solids content ISO 1768	100%
VOC(volatile organic compounds)	0 g/l comp. A+0 g/l comp. B
Shore Hardness A DIN 53.505	>75
Adhesion to the concrete	>4 MPa
Pot life at 23 °C	±50 minutes
Drying time 23 °C	±60 minutes
Final dry time at 23 °C	±2~3 hours
Recoat range time at 23 °C	3~24hours
Service range temperature	-20~80 °C
Environmental and surface range of temperature for the application	5~35 °C
Max. moisture on the support	±4 %
Max. environmental moisture	±80%
Dilution	NEVER

These values in this table are approximate and can vary depending on the situation of the carrier or application methodology employed

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. The customer assumes full responsibility for quality control, testing, and determination of the suitability of products for its intended application or use.

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