

Cipoxy 16

Solvent Free Epoxy Primer for damp surfaces



Description

A solvent-free, high viscous epoxy primer, Cipoxy 16 is specifically recommended for damp concrete and masonry substrates. It is fast curing and can be used on damp surfaces too. Cipoxy 16 cannot be used as self levelling screed due to its higher viscosity. However, in conjunction with FQ 80, it can be applied as a pore-free sealer coat before laying self levelling systems. Cipoxy 16 does not blush in humid or low temperature conditions, unlike other epoxy primers. Cipoxy 16 is typically recommended as primer for PU floorkote systems.

Uses

Cipoxy 16 is used as primer in conjunction with epoxy, epu and PU self levelling systems. It is also recommended as sealing coat over Cipocem range of underlays, before polymeric overlays are laid.

Key features

- Excellent bond strength
- Non blushing in humid environments
- Excellent bond to epoxy screeds and top coats
- Can be applied on slightly damp surfaces
- The most suitable primer for PU top coats



Certified

Properties

Type	: Epoxy-polyamido-amine	Mixing ratio (Resin to Hardener)	: 1 : 1 by volume
Finish	: Brownish clear glossy	Appearance	: Transparent
Pot life @ 27°C ASTM D 2471	: ≥ 40 minutes	Solids content by weight ASTM D 2369	: 93%
Drying time ASTM D 1640		Recommended WFT ASTM D 4414	: 210 microns
Surface dry	: ≥ 2 hr	Recommended DFT ASTM D 7091	: 200 microns
Tack free dry	: ≥ 8 hrs	Application	: By roller / brush
Hard dry	: ≥ 24 hrs	Shelf life	: 12 months in the unopened container
Recommended thinner	: PUT 502 (Clean up)		

Performance data

The mandatory performance parameters as per FeFRA and EFNARC guidelines for resin flooring system

Pull of adhesion test
ASTM D 7234-2022 : ≥ 2 MPa for M20 grade concrete or concrete failure

Other mechanical properties

Tensile strength
ASTM 638-2014 : 13.6 MPa

Elongation
ASTM D 638-2014 : 3.8%

TYPE 2 EFNARC GUIDELINE

FLOOR COATING

Note : The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, dependent on actual site conditions

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Direction to use

Surface preparation

The long-term durability of the applied CIPOXY 16 coating is dependent upon the adhesive bond achieved between the flooring material and substrate. It is most important therefore, that substrate surfaces are correctly prepared prior to application. Ensure that the residual moisture level in the concrete is below 7%. All substrates should be sound and free from contamination such as mortar and paint splashes, curing compound residue, oil, or grease. Excessive laitance should be removed by light mechanical scrubbing, grinding or grit blasting. Oil and grease contamination must be completely removed by grinding down to sound, clean concrete. Alternatively, blasting techniques can be used to provide the required substrate.

Mixing & Application

CIPOXY 16 is supplied in 20 ltr packs of each Resin & Hardener, both should be mixed to make uniformity in material. Solvent or thinners should not be added. A forced action mixer with a paddle fitted into a heavy duty, slow speed electric hand drill is recommended for mixing. The material is poured onto the primed substrate and spread to the required thickness with a roller. Allow to cure overnight. Allow trafficking after 48 hrs.

Packaging & Theoretical coverage

Cipoxy 16 : Resin and Hardener available in 20 litre : 1 litre covers 5 sqm
packing @ 200 microns

Storage and handling

The product should be stored in accordance with national regulations. It should be kept in a cool, well ventilated area, away from heat, direct sunlight, sparks and children. Handle with care. Mix resin and hardener as per the ratio. Use the mix solution within the pot lifetime. Ideal temperature for storage of the material is 25°C to 30°C, in a covered shed.

Health and safety precautions

Please refer to MSDS. Observe reasonable care and employ ordinary hygienic principles such as washing the hands with soap and water before eating or smoking. It is recommended to wear gloves, goggles and nose masks while application. In case of splashes on the skin, dampen the cloth with thinner PUT 503 and wipe the hands with the cloth. Wash then with soap and water. Dried film is non toxic. In case of contact with eyes, rinse with plenty of water and seek medical advice. In case of continuous exposure to vapours, the applicator should be immediately moved to get fresh air. The disposal of excess or waste material should be carried out in accordance with the local legislations.

Limitations

It is not compatible for application over asphalt, unmodified sand-cement screed or PVC tiles and sheets. Cipoxy 16 coated floor will be scratched due to nails or sharp objects protruding from machinery, packaging, or trolleys moving on the floor. Presence of sand will also cause abrasion.

The product is not advised to be applied below 15°C as the flow reduces. While applying the product above 35°C, there can be a problem of low pot life etc., and it will be difficult to apply the material. Cured product is not suitable for exposure to sub-zero temperatures and above 65°C

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