

Cipoxy 18

Solvent-free epoxy primer and self-levelling screed

Description

A solvent-free, two component epoxy-polyamide based, medium viscosity primer-cum-screed, Cipoxy 18 is recommended as primer and screed for concrete substrates. Being a viscous material, Cipoxy 18 forms a thick coating which will seal the normal porosities of the concrete.

Uses

Cipoxy 18 is used as primer as well as screed as a part of both Cipoxy and DeckFloor range of floor toppings.

Key features

- Excellent adhesion
- Excellent levelling properties
- Excellent bond to Epoxy, EPU & PU top coats

Properties

Type	: Epoxy-polyamide
Mixing ratio Resin : Hardener	: 1 : 1 by volume
Appearance	: Clear Glossy
Pot life @ 27°C ASTM D 2471	: ≥ 45 min
Solid contents by weight ASTM D 2369	: ≥ 95%
Recommended DFT (primer) ASTM D7091	: 200 microns
Drying time @ 25°C ASTM D 1640	
Surface dry	: ≥ 2 hrs
Tack free dry	: ≥ 4.30 hrs
Hard dry	: ≥ 24 hrs
Application	: By brush / roller
Overcoat interval Over primer application Over screed application	: Maximum 24 hours Maximum 7 days
Recommended thinner Clean up	: PUT 502
Shelf life	: 12 months in the unopened container

Performance data

The mandatory performance parameters as per FeRFA and EFNARC guidelines for resin Flooring systems

Primer & Screed

Pull off adhesion ASTM D 4541	: ≥ 2 MPa for M20 grade concrete or Concrete failure
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Other mechanical properties

Primer : Density of the mix (Resin : Hardener) 1 : 1	: 1.04 gm / cc
Screed : Density of the mix (Liquid : Aggregate) 1 : 2.5	: 1.86 gm / cc
Tensile strength ASTM D 638	: 11 N / mm ²
Flexural strength ASTM D 790	: ≥ 4 MPa
Shore D ASTM D 2240	: 75

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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Application Instructions

Surface preparation

The long-term durability of the applied Cipoxy 18 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 5%. 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 and Application

Primer

Cipoxy 18 Resin and Cipoxy 18 Hardener is supplied separately in 20 ltrs packing. Mix Resin and Hardener in equal proportions. 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 prepared substrate and spread to the required thickness with a painting roller/ stiff brushes. Porous floors may require two coats of Cipoxy 18. It should be allowed to become tack free prior to application of screed layer. Overcoating window time should not exceed 24 hours. In case overcoating window exceeds 24 hours, recoating of primer is necessary.

Screed

Mix Resin and Hardener in equal proportions, and add formulated aggregates like FQ 200 in recommended ratio as per the screed thickness. 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. Allow to cure overnight. In case over coating window exceeds 48 hours, light mechanical abrading to be done on the screed surface before overlaying with subsequent topping. If the over coating window on top of screed exceeds 7 days, light abrading the screed surface and priming is essential.

Packaging & Coverage

Cipoxy 18 - Primer	:	Resin and Hardener available in 20 litre packing each	:	1 litre (Resin+Hardener) covers 5 sqm @ 200 microns
Cipoxy 18 - Screed	:	Resin and Hardener available in 20 litre packing each Aggregate available in 25 kg packing	:	1.06 litre of Cipoxy 18 (Resin+Hardener) mixed with 2.65 kgs of FQ 200 will cover an area of 1 sqm at 2mm

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. 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. 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 vapour, 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. Cipoxy 18 is non-flammable. Flash point is above 100°C.

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Limitations

It is not compatible for application over asphalt, unmodified sand-cement screed or PVC tiles and sheets. Cipoxy 18 coated floor will be scratched due to nails or sharp objects protruding from machinery, packings, 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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