

Cipoxy 11

Hi-build epoxy primer

Description

A solvent borne, high solids, two component epoxy-polyamide based primer, Cipoxy 11 is highly recommended as prime coat for concrete substrates. Being a very low viscous primer, Cipoxy 11 penetrates easily and efficiently into the concrete porosities forming a very strong bond with the substrate. It is an ideal primer for all floortopping applications.

Uses

Cipoxy 11 is used as primer as a part of both Cipoxy and Cipothane range of floor toppings. Also used as prime coat for concrete substrates for protective coating applications.

Key features

- Excellent adhesion
- Excellent penetrating properties
- Excellent bond to epoxy and EPU top coats

Properties

Type	: Epoxy-polyamide	Mixing ratio (Resin to Hardener)	: 1 : 1 by volume
Finish	: Brownish Clear glossy	Apperance	: Transparent
Pot life @ 27°C ASTM D 2471	: ≥ 65 minutes	Volume solids ASTM D 2697	: 70%
Drying time ASTM D 1640		Recommended WFT ASTM D 4414	: 142 microns
Surface dry	: ≥ 1 hr	Recommended DFT ASTM D 7091	: 100 microns
Tack free dry	: ≥ 7 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 : 19 MPa

Elongation
ASTM D 638-2014 : 5%

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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Directions to use

Surface preparation

The long-term durability of the applied Cipoxy 11 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 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 & Application

Cipoxy 11 Resin and Hardener is supplied separately in 20 litre packs. Mix the same 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 primed substrate and spread to the required thickness with a painting roller/ stiff brushes. Porous floors may require two coats of primer. Cipoxy 11 primer should be allowed to become tack free prior to application of screed or top coat. Primer coverage will depend on the texture and porosity of the substrate and also the application thickness.

Packaging & Theoretical coverage

Cipoxy 11 : Resin and Hardener available in 20 litre : 1 litre covers 7-8 sqm
packing @ 100 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. It contains inflammable solvents. Mix resin and hardener as per the ratio. Use the mix solution within the pot life time. 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 screeds or PVC tiles and sheets. Cipoxy 11 coating laid 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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