

Cipoxy FP

Solvent-free, viscous intermediate coat for car parks

Description

Cipoxy FP is a solvent-free, viscous, intermediate coat, specifically recommended for car park flooring system on intermediate deck and ramp. Cipoxy FP is polyamine cured epoxy system with low VOC.

Uses

Cipoxy FP is used as intermediate coat in conjunction with epoxy, epu and PU car park flooring systems. It is also recommended as sealing coat over Cipocem range of underlays, before the polymeric overlays are laid.

Key features

- Excellent bond strength
- Non blushing in humid environments
- Excellent bond to epoxy and PU top coats
- Can be applied on slightly damp surface

Properties

Type	: Epoxy polyamine	Mixing ratio	: 1 : 1 by volume
Finish	: Smooth glossy	Solids contents by wt ASTM D 2369	: 98%
Pot life @ 27°C ASTM D 2471	: ≥ 45 minutes	Recommended DFT ASTM D 7091	: 200 microns
Drying time ASTM D 1640		Application	: By Brush / roller
Surface dry	: ≥ 3 hrs	Overcoat interval	
Tack free dry	: ≥ 8 hrs	Over primer application	: Maximum 24 hours
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
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Other mechanical properties

Flexural strength ASTM D 790-2017	: 13 MPa
Elongation ASTM D 638-2014	: 4%
Tensile strength ASTM D 638-2014	: 15 MPa

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 FP 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 and Application

Primer

Cipoxy 18 Resin and Cipoxy 18 Hardener is supplied separately in 20 lts 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 / intermediate layer. Overcoating window time should not exceed 24 hours. In case overcoating window exceeds 24 hours, recoating of primer is necessary.

Intermediate coat

Cipoxy FP Resin and Hardener is supplied separately in 20 lts 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 primed substrate and spread to the required thickness with a painting roller / stiff brushes.

Packaging and theoretical coverage

Cipoxy FP	: Resin and Hardener packed in 20 lt packing each	: 1 litre covers 5 sqm @ 200 microns
Cipoxy 18	: Resin and Hardener packed in 20 lt packing each	: 1 litre covers 5 sqm @ 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. 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.

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Limitations

It is not compatible for application over asphalt, unmodified sand-cement screed or PVC tiles and sheets. Cipoxy FP 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 to spiked rolling may not close which will result in an undesirable finish. The product is not suitable for areas exposed to direct sunlight.

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