

Cipoxy 15

Solvent-free low viscous epoxy primer



Description

A low viscous version from the Cipoxy range of primers, Cipoxy 15 is a solvent free, epoxy polyamido-amine based, two component, all- purpose epoxy system recommended for concrete and masonry substrates. Being a low viscous, Cipoxy 15 with its special blend of surfactants, penetrates easily and efficiently into the porosities and capillaries of the concrete substrate forming a very strong bond with the substrate. Cipoxy 15 is based on a polyamido-amine cured epoxy chemistry and has excellent bond strength with the substrate which is the hall mark of an effective primer for polymeric floorings. It can also be used as a sealer and a self levelling screed with the aid of graded aggregates such as FQ 80, FQ 200, FQ 250 and FQ 300 for various screed thicknesses.

Uses

Cipoxy 15 is used as primer, self levelling screed and sealer coat in conjunction with Cipoxy and Cipothane range of floor toppings. It is also used a water-wipeable grout for kota stones, with the aid of aggregates and EPI colourants.

Key features

- Excellent bond strength, with concrete failure in pull-off test
- Low viscous
- Slow curing
- Bonds tenaciously to become an integral part of the floor

Properties

Type	: Epoxy-polyamidoamine	Mixing ratio Resin to Hardener	: 2 : 1 by volume
Colour	: Brownish yellow	Density of the mix screed (Liquid : Aggregate) 1 : 2.5	: 1.76 gm / cc
Pot life @ 27°C ASTM D 2471	: ≥ 90 minutes	Application	: By roller / brush
Drying time : screed ASTM D 1640		Shelf life	: 12 months in the unopened container
Surface dry	: ≥ 50 minutes	Recommended thinner	: PUT 502 (Clean up)
Tack free dry	: ≥ 5 hrs		
Hard dry	: ≥ 24 hrs		

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

Tensile strength : screed ASTM D 638	: 8 MPa
Flexural strength : screed ASTM D 790	: 12 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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Directions to use

Surface preparation : The long-term durability of the applied Cipoxy 15 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.

Priming

Prepared substrates to be treated with Cipoxy 15. Remove unstuck grains from the surface. Primer should be mixed in the proportions supplied by adding the entire contents of hardener can to the base can. Once mixed, Cipoxy 15 should be immediately applied in a thin, continuous film using stiff brushes or rollers. Over application and puddles should be avoided. Porous floors may require two coats of Cipoxy 15. It should be allowed to become tack free prior to application. Primer coverage will depend on the texture and porosity of the substrate and the application thickness.

Mixing & Application

Mix Cipoxy 15 Resin and Hardener in 2:1 ratio by volume, mix formulated aggregates like FQ 200, 250, or 300 in recommended ratio as per the screed thickness of 3mm to 5mm. 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 15 - Primer	: Resin and Hardener available in 20 litre packing	: 1 litre covers 5 sqm @ 200 microns
Cipoxy 15 - Screed	: Resin and Hardener available in 20 litre packing Aggregates available in 25 kg bags	: 1 litre of Cipoxy 15 mixed with 2.5 kgs of FQ 200 will cover an area of 1 sqm @ 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. Mix resin and hardener as per the ratio. Use the mix solution within the pot life time.

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 15 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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Pidilite Industries Ltd.

T-127, MIDC, Bhosari, Pune - 411 026

Tel. +91-20-66316400

Email : drcipy@pidilite.com

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