

Cipoxy 90

Low viscous, high strength epoxy system for screed

Description

Cipoxy 90, a solvent free, low viscous, two component epoxy resin cured with poly amine curing agent, is recommended as high strength screed for concrete and masonry substrates. It is used as self levelling screed for high build and high strength flooring systems. Being low viscous, more quantity of graded aggregates can be loaded in Cipoxy 90.

Uses

Cipoxy 90 is used as self levelling screed over which Cipoxy and Cipothane range of floor toppings are laid. It is not recommended to use Cipoxy 90 as primer.

Key features

- Very low viscous
- Excellent compressive strength
- Fast setting
- Higher filler loading

Properties

Type	: Epoxy-polyamine
Mixing ratio (R:H)	: 2 : 1 by volume
Finish	: Clear gloss
Colour	: Transparent
Pot life @ 27°C ASTM D 2471	: ≥ 30 min
Drying time ASTM D 1640	
Surface dry	: ≥ 2 hrs
Tack free dry	: ≥ 7 hrs
Hard dry	: ≥ 24 hrs
Application	: By trowel
Recommended thinner Clean up	: PUT 502
Shelf life	: 12 months in the un-opened container

Performance data

Compressive strength ASTM D 695	: ≥ 50 MPa
Tensile strength ASTM D 638	: ≥ 7 MPa
Flexural strength ASTM D 790	: ≥ 12 MPa
Adhesion pull off test ASTM D 4541	
Concrete	: ≥ 2 MPa for M20 grade concrete or Concrete failure

Directions to use

Before primer application, CDS (Clean, Dry and Sound) test is conducted on the concrete. Moisture test is conducted by moisture meter or plastic sheet method (ASTM D4263 : Standard test method for indicating moisture in concrete). The residual moisture should not be more than 5%. Surface preparation like scarification / grinding is done to achieve a surface profile of 150-200 microns.

Apply Cipoxy 14/ 15 as primer and allow to part-cure. Mix Cipoxy 90 resin and Cipoxy 90 hardener in 2 : 1 ratio by volume. Mix formulated aggregates like FQ 75, 200, 250 or 300 in recommended ratio as per the screed thickness. Agitate the mixture for 5 minutes. Apply by trowel. Allow to cure for 5-6 hours. The screed surface is now ready to take up sealer / top coat

Packaging

Cipoxy 90 is available in 5 lt and 20 litre packs and has a maximum shelf life of 12 months in the un-opened containers.

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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.

Disclaimer

All information contained in this data sheet is given to the best of our knowledge but no warranty is made with respect thereto. This data sheet becomes invalid as soon as a new edition has been published. Please contact us for latest edition. Description and advice regarding Cipy's products are based on long term field and laboratory tests carried out by us. No condition of warranty is given covering the results from the use of materials in the circumstances of any particular application, because the storage, handling and application of the materials are beyond our control.

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