

Cipoxy FC 110

Solvented epoxy floor coating

Description

A solvent borne, 2C pigmented coating, Cipoxy FC 110 is based on a modified epoxy resin cured with a specific grade of cyclo aliphatic amine adduct to impart a high glossy film on primed surfaces. Cipoxy FC 110 cured film is very hard and resistant to chemicals and abrasion. Cipoxy FC 110 is recommended as roll-on floor coatings for concrete substrates.

Uses

Cipoxy FC 110 is used a top coat for existing floor toppings as well as on properly sealed epoxy self levelling screeds. For thin coat applications, FC 110 is applied over Cipoxy 11.

Key features

- Excellent adhesion
- High gloss.
- Excellent toughness

Properties

Type	: Epoxy-cycloaliphatic amine
Mixing ratio (R:H)	: 4 : 1 by volume
Finish	: Smooth glossy
Colour	: Desired shade
Pot life @ 27°C ASTM D 2471	: ≥ 60 min
Volume solids ASTM D 2697	: ≥ 75%
Recommended WFT ASTM D 4414	: 130 microns
Recommended DFT ASTM D 7091	: 100 microns
Drying time ASTM D 1640	
Surface dry	: ≥ 1 hrs
Tack free dry	: ≥ 3 hrs
Hard dry	: ≥ 24 hrs
Theoretical coverage	: 7-8 sq m / litre / coat @ 100 microns
Application	: By roller

Recommended thinner

Clean up	: PUT 502
Shelf life	: 12 months in the un-opened container

Performance data

Tensile strength ASTM D 638	: ≥ 7 MPa
Pull off adhesion test ASTM D 4541	
On concrete	: ≥ 2 MPa for M 20 grade concrete or concrete failure
Abrasion resistance ASTM D 4060	: ≤ 75 – 80 mg

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 or shot blasting is done to achieve a surface profile of 150-200 microns.

Apply Cipoxy 11 as a primer and allow to cure for 6-7 hours. Cipoxy FC 110 resin is pigmented, stir it well before mixing with hardener. Mix Cipoxy FC 110 resin and Cipoxy FC 110 hardener in 4:1 ratio by volume by suitable mechanical stirrer for 3-4 minutes. Apply Cipoxy FC 110 by roller at a thickness of 100-110 microns and allow to cure for 4-5 hours. Apply second coat and allow to cure for 24 hours.

Packaging

Cipoxy FC 110 is available in 5 and 20 litre packs and has a maximum shelf life of 12 months in the un-opened containers.

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,

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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.

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 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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Cipy Polyurethanes Pvt Ltd

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

Tel. +91-20-66316400 / Fax : +91-20-66316460

Email : info@cipyurethane.com

