

Cipoxy FC 300

Solvent free epoxy floor coating



Description

A two component epoxy based pigmented top coat, cured with modified cyclo-aliphatic curing agent, Cipoxy FC 300 is recommended as a hi-build epoxy floor coating. It has excellent adhesion over primed and screeded surfaces. It is available in ALL RAL colors.

Uses

Cipoxy FC 300 is used as a top coat in conjunction with Cipoxy range of floor toppings. It is recommended in

- Automobile,
- Pharma,
- Food,
- Brewery
- Light engineering industries.

Key features

- Excellent adhesion
- Solvent free
- Excellent flow and levelling characteristics
- High gloss
- Excellent toughness
- Food grade epoxy floor coating



Certified

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 : ≥ 90 min

Volume solids ASTM D
2697 : ≥ 84%

Recommended DFT
ASTM D 7091 : 300 microns

Drying time
ASTM D 1640

Surface dry : ≥ 2.3 hr

Tack free dry : ≥ 7 hr

Hard dry : ≥ 24 hrs

Application : By roller

Recommended thinner
Clean up : PUT 502

Shelf life : 12 months in the un-opened container

Performance data

The mandatory performance parameters as per FeFRA and EFNARC guidelines for resin flooring system

Pull off adhesion test
ASTM D 7234-2022 : ≥ 2 MPa for M20 grade concrete or concrete failure

Impact test
IS 101 (Part 5/ Sec 3) : Pass (1.8 kg - 50 cm)

Abrasion resistance
ASTM D 4060 : Max 60 mg loss

Other mechanical properties

Tensile strength
ASTM D 638 : ≥ 25 MPa

Pendulum test, Slip
resistance
BS 8204 : 58 - 69
Very low risk of slip

Shore D
ASTM D 2240 : 70 - 75

Scratch hardness
IS 101 (Part 5 / Sec 2) : 4 kg pass

TYPE 3 EFNARC GUIDELINE

HIGH BUILD FLOOR COATING

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 FC 300 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 above 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 FC 300 coating, should be primed with CIPOXY 17/18. Primer should be mixed in the proportions supplied by adding the entire contents of hardener can to the base can. Once mixed the CIPOXY 17/18 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 primer. It should be allowed to become tack free prior to application. Primer coverage will depend on the texture and porosity of the substrate and also the application thickness. Overcoating window time should not exceed 24 hours. In case overcoating window exceeds 24 hours, recoating of primer is necessary.

Mixing & Application

Cipoxy FC 300 Resin and Hardener is supplied in separate packing. Mix the same in the defined mixing ratio. 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 and allow to cure for 24 hours.

Packaging & Theoretical coverage

Cipoxy FC 300 is available in 5 and 20 litre packs and has a maximum shelf life of 12 months in the un-opened containers.

1 litre Cipoxy FC 300 (Resin+Hardener) covers 2.8 sqm @ 300 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. It contains inflammable solvents. 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 vapour, 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.

Do's

- Clean regularly
- Remove aggressive chemical spillage immediately
- Maintain wheel for proper rolling, should not get dragged.
- Nylon / teflon wheel trolleys are recommended
- Handle heavy material gently and cautiously
- Immediately clean spillage of any oil or fatty liquid which may cause accident during people's movement

Don't

- Drag any sharp and heavy object. Movement of metal wheel trolley
- Expose to fire or welding spark
- Expose to very high temperature than recommended by Manufacturer
- Drop down any heavy material on the floor
- Expose to highly corrosive chemicals

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Limitations

It is not compatible for application over asphalt, unmodified sand-cement screeds or PVC tiles and sheets. CIPOXY FC 300 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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