

Cipoxy 33

Food grade epoxy coating



Description

Cipoxy 33 is a food grade, two component, high solids epoxy coating, cured with a cyclo-aliphatic amine modified curing agent.

Uses

- As top coating on covings that matches with the colour of self levelling floorings.
- Wall coatings
- Inside coating of tanks

Key features

- Excellent adhesion
- Good abrasion resistance
- Excellent chemical resistance
- High gloss
- Excellent toughness
- Tested and approved as food grade by IGBC and CFTRI certified



Certified

Properties

Type	: Epoxy-cycloaliphatic amine
Mixing ratio (R:H)	: 4 : 1 by volume
Colour	: Desired shade in gloss finish
Pot life @ 27 °C ASTM D 2471	: ≥ 50 min
Volume solids ASTM D 2697	: ≥ 86 %
Recommended DFT ASTM D 7091	: 100 microns
Drying time @ 25 °C ASTM D 1640	
Surface dry	: ≥ 1 hrs
Tack free dry	: ≥ 7 hrs
Hard dry	: ≥ 24 hrs
Theoretical coverage	: 8.6 sq m / litre / coat @ 100 microns
Application	: By brush / roller
Recommended thinner Clean up	: PUT 502
Shelf life	: 12 months in the un-opened container

Performance data

The mandatory performance parameters as per FeRFA and EFNARC guidelines for resin Flooring systems

Abrasion resistance ASTM D 4060-2019	: Max 129 mg loss
Pull off adhesion ASTM D 7234-2022	: ≥ 4.5 MPa

Other mechanical properties

Elongation ASTM D 638	: 4.5%
Tensile strength ASTM D 638	: 18 MPa

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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Chemical resistance

Excellent resistance is observed against distilled water, detergent solutions, alkalis and acids. Chemical spillages should always be wiped up as quickly as possible and not be allowed to concentrate up by evaporation. The data on the list of the chemicals found resistant to this product during our lab study is available on request.

Application Instructions

Surface preparation

The long-term durability of the applied CIPOXY 33 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 16/17/18 primer. Primer should be mixed in the proportions supplied by adding the entire contents of hardener can to the base can. Once mixed 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 Cipoxy 17/18 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 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 33 is supplied in 20 litre packs of each Resin & Hardener. Mix Resin & Hardener in 4:1 ratio by volume and agitate the mixture for 3-4 minutes. Apply by roller/ brush/spray at a thickness of 100-150 microns and allow to cure for overnight. 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. Apply in two coats. Allow to cure overnight. Allow trafficking after 48 hrs.

Do's

- Clean regularly
- Remove aggressive chemical spillage immediately
- Maintain wheel for proper rolling, should not get dragged
- Handle heavy material gently and cautiously
- Clean any oil or any liquid which may cause accident during people's movement

Don't

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

Limitations

It is not compatible for application over asphalt, unmodified sand-cement screed or PVC tiles and sheets. Cipoxy 33 coated floor will be scratched due to nails or sharp objects protruding from machinery, packaging, or trolleys moving on the floor. Presence of sand will also cause abrasion. The product is not advised to be applied below 10 °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.

Packaging and coverage

Cipoxy 33 : Resin and Hardener available in 20 litre : 1 litre covers 8.6 sqm @ 100 microns
packing each

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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. 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 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.

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