

# Cipoxy CG

## Clear epoxy self levelling coating



### Description

Cipoxy CG, a two component, self levelling clear coat is based on modified epoxy resin cured with a specific grade of clear cyclo-aliphatic amine is recommended for the performance enhancement of the pigmented floor toppings. It has excellent adhesion over various types of overlays and is normally laid at 500 microns which imparts a water clear film.

### Uses

- Cipoxy CG is used as clear self levelling top coat in conjunction with Cipoxy range of floor toppings such as epoxy terrazzo flooring, decorative quartz floorings and epoxy flake floorings.
- It can also be used as high gloss clear coating over patterned floorings.

### Key features

- Excellent self levelling properties
- High abrasion resistance
- High gloss
- Excellent toughness
- Water clear

### Properties

Type : Epoxy-cycloaliphatic amine

Mixing ratio (R:H) : 2 : 1 by volume

Colour : Transparent

Pot life @ 27 °C  
ASTM D 2471 : ≥ 30 min

Solids content by wt  
ASTM D 2369 : 92 %

Recommended DFT  
ASTM D 7091 : 500 microns

Drying time @ 25 °C  
ASTM D 1640

Surface dry : 90 minutes

Tack free dry : 8 hrs

Hard dry : 24 hrs

Theoretical coverage : 1.5 sq m / litre / coat  
@ 500 microns

Application : By roller / brush

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 25 mg loss

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

Pendulum test (Slip  
resistance)  
BS 8204 : 32 PTV  
- moderate slip  
potential

### Other mechanical properties

Elongation : 10%  
ASTM D 638-2014

Tensile strength : 12 MPa  
ASTM D 638-2014

Shore D Hardness : 68  
ASTM D 7234-2022

Scratch resistance : Pass (No Rupture)  
IS 101 Part - 5 / Sec-2  
- pressure upto 4 kg

**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, alkalies 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 CG 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.

### Mixing & Application

Ensure that the self levelling epoxy topping is totally dried. Cipoxy CG is supplied in 20 ltr packs of each Resin & Hardener. Mix Resin & Hardener in 2:1 ratio by volume and agitate the mixture for 3-4 minutes. Apply by levellor at a thickness of 500 to 1000 microns. Deaerate the layer by using spike roller. Allow to cure overnight.

#### 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 CG : Resin and Hardener available in 20 litre : 1 litre covers 1.5 sqm  
packing each @ 500 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. 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.

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## Health and safety precautions

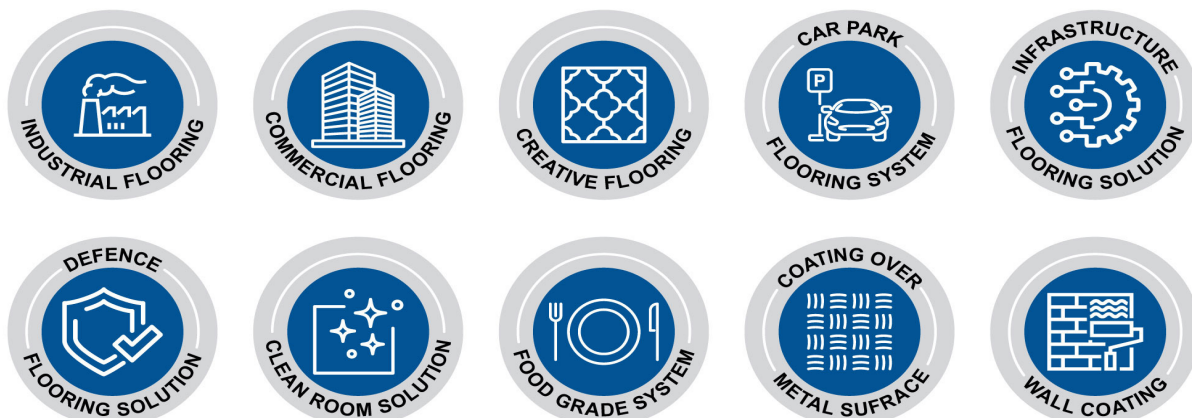
Please refer to MSDS. Observe reasonable care and employ ordinary hygienic principles such as washing the hands with soap and water before eating or smoking. It is recommended to wear gloves, goggles and nose masks while application. In case of splashes on the skin, dampen the cloth with thinner PUT 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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