

# Cipoxy FC 100 4K

## Solvent free texture floor coating



### Description

Cipoxy FC 100 4K is a four component, solvent-free epoxy coating recommended for car parks. It contains resin, hardener, aggregates and EPI. Cipoxy FC 100 K is a surface tolerant coating and hence can be used as primer as well as topcoat. Along with silica-broadcasting, Cipoxy FC 100 4K is used as anti-slip coatings.

### Uses

- As deck coatings for car parks.

### Key features

- Solvent free
- Excellent adhesion to concrete
- Good chemical resistance
- Moderate wear resistant
- No primer required



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### Properties

Type	: Epoxy modified polyamine	Mixing ratio	: Pre-weighed packs
Finish	: Semi Glossy	Colour	: Desired shade
Pot life @ 27°C ASTM D 2471	: ≥ 50 minutes	Volume solids ASTM D 2697	: 95%
Drying time ASTM D 1640		Recommended DFT ASTM D 7091	: 300 - 600 microns
Surface dry	: ≥ 2 hr	Application	: By roller / brush
Tack free dry	: ≥ 7 hrs		
Hard dry	: ≥ 24 hrs		
Recommended thinner	: PUT 502 (Clean up) PUT 503 (Dilution)	Shelf life	: 12 months in the unopened container

### Performance data

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

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

Impact resistance : 9.81 N.m  
ASTM D 2794 - 1993

Abrasion resistance : Maximum 32 mg loss  
ASTM D 4060-2019  
CS 17, 1 kg 1000 cycles

Pendulum test : 69 PTV  
Slip resistance : - Low slip potential  
BS 8204

#### **Other mechanical properties**

Tensile strength : 14 MPa  
ASTM D 638-2014

Flexural strength : 19 MPa  
ASTM D 790-2017

Shore D : 75  
ASTM D 2240

Elongation : 7 %  
ASTM D 638-2014

Crack bridging ability : 2.54  
EN 1062-7-2004(A)

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 Instruction

### Surface preparation

The long-term durability of the applied Cipoxy FC 100 4K 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 FC 100 4K, 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 primer 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 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 100 4K is supplied in pre-weighed packs ready to use on site. Solvent or thinners should not be added. Mix all the pack material quantity in a bowl and stir for 2-3 minutes using slow speed mixer. The material is poured on to the primed surface and spread to the desired thickness and then use a special kind of epoxy roller / sponge or nylon roller. Allow to cure for 24 hours

### Packaging and coverage

Cipoxy FC 100 4K	: Pre-weighed set of 20.8 kgs (Clear Set)	: For 1.5 mm car parking : 41-42 sqm / kit For 2.0 mm car parking : 36 sqm / kit
EPI - Pigment for top coat	: 800 gms to be mixed with the top coat (available in 400 gm x 2 packs)	
Cipoxy 17/Cipoxy 18	: Resin and Hardener available in 20 litre packing	: 1 litre covers 5 sqm @ 200 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. Ideal temperature for storage of the material is 25°C to 30°C, in a covered shed.

#### 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 screeds or PVC tiles and sheets. CIPOXY FC 100 4K 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. When there is not enough material in a given area, roller marks caused due to spiked rolling may not close which will result in an undesirable finish. The product is not suitable for areas exposed to direct sunlight.

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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.

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