

# Cipoxy FC 100-4K

## Solvent free, surface tolerant epoxy car park coating

### Description

Cipoxy FC 100-4K is a four component, solvent-free epoxy coating recommended for car parks. FC 100-4K contains resin, hardener, aggregates and EPI. Cipoxy FC 100-4K is a surface tolerant coating and hence can be used as primer as well as topcoat. Along with silica-broadcasting, 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
- Moderately wear resistant
- No primer required

### Properties

Type	: Epoxy modified polyamine
Finish	: Semi Glossy
Colour	: All shades
Pot life @ 27°C ASTM D 2471	: ≥ 45 min
Recommended DFT ASTM D 7091	: 300-600 microns
Drying time ASTM D 1640	
Surface dry	: ≥ 1 hour
Tack free dry	: ≥ 7 hours
Hard dry	: ≥ 24 hours
Application	: By roller / brush
Recommended thinner	
Clean up	: PUT 502
Dilution	: PUT 503
Shelf life	: 12 months in the un-opened container

Theoretical coverage

Standard kit of Cipoxy FC 100 - 4K

- Resin : 9 kgs / Hardener : 5 kgs / FQ 2 aggregates : 6.8 kgs / EPI : 0.8 kgs

### Coverage\* :

- For 1.5 mm car park coating : 41-42 sqm/kit
- For 2.0 mm car park coating : 36 sqm/kit

(\*depends on the surface conditions, application method and surface profile)

### Performance data

Tensile strength ASTM D 638	: ≥ 10 MPa
Compressive strength ASTM D 695	: ≥ 55 MPa
Abrasion resistance ASTM D 4060	: ≤ 70 mg loss
Pull off adhesion test ASTM D 4541	: ≥ 2 MPa for M20 grade concrete or Concrete failure
Pendulum test Slip resistance BS 8204	: 40 - 70

### Directions to use

The concrete needs 28 days cure so as the residual moisture needs to reach within the acceptable level of 4-5%. Surface preparation like shot blasting or grinding is done in order to achieve a surface profile of 150-200 microns. The recommended surface profile is SP-2 (Reference: ICRI technical guideline No: 03732). The relative humidity in the concrete slab should not go beyond 80%. The rising moisture vapour emission rate must not exceed 14-15 gms per sqm over a 24 hour period as measured by calcium chloride method, ASTM F 1869.

Conduct CDS (clean, dry and sound) tests on the substrate before applying Cipoxy FC 100-4K. Shot blasting or grinding is the preferred surface preparation in order to achieve a surface profile of 150-200 microns.

Unpack resin and hardener into a mixing bowl. and mix for 1 minute, add EPI and aggregates and continue mixing for 2-3 minutes till a homogeneous solution is obtained. Apply by roller or squeeze and allow to cure for a minimum 24 hours for optimization of properties.

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### Packaging

Cipoxy FC 100-4K is available in kits and has a maximum shelf life of 12 months in the unopened 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, sparks and children. Handle with care. Mix resin and hardener as per the recommendation ratio. Use the mix solution within the pot life time.

### Health & Safety

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

### 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's 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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