

Cipothane 4K

Solvent-free EPU deckcoating

Description

Cipothane 4K is a four component, solvent-free, EPU coating system recommended for car parks, consisting of resin, hardener, aggregates and EPI. Cipothane 4K is characterised by the hybrid properties of epoxy and polyurethane resins such as moderate flexibility, excellent toughness, and excellent wear resistance. It is applied as anti-slip coating over the silica broadcasted surfaces.

Uses

- As anti-skid floor coating along with the broadcast of anti-slip grains.

Key features

- Solvent-free
- High abrasion resistance
- Moderate flexibility
- Anti slip

Properties

Type	: EPU
Finish	: Glossy
Colour	: Desired shade
Pot life @ 27°C ASTM D 2471	: ≥ 30 min
Solids content by wt ASTM D 2369	: ≥ 98%
Recommended DFT ASTM D 7091	: 300-600 microns
Drying time ASTM D 1640	
Surface dry	: ≥ 1 hr
Tack free dry	: ≥ 6 hrs
Hard dry	: ≥ 24 hrs
Application	: By roller / trowel
Recommended thinner	
Clean up	: PUT 502
Shelf life	: 6 months in the unopened container

Theoretical coverage

Standard kit of Cipothane 4K

- Resin : 10.5 kgs
- Hardener : 5 kgs
- FQ 2 Aggregates : 7.3 kgs
- EPI : 0.8 kgs

Coverage *

- For 1.5 mm car park coating : 45 sqm/kit
- For 2.0 mm car park coating : 37-38 sqm/kit

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

Performance data

Tensile strength ASTM D 638	: ≥ 14 MPa
Flexural strength ASTM D 790	: ≥ 25 MPa
Abrasion resistance ASTM D 4060	: ≤ 70 mg loss
Shore D Hardness ASTM D 2240	: ≥ 60
Pendulum test value BS 8204	: 40 - 70

Directions to use :

The concrete needs 28 days cure so as the residual moisture 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.

Cipothane 4K

Solvent-free EPU deck coating

Ensure that CDS (clean, dry and sound) test is conducted on the concrete substrate. Surface preparation like scarification, grinding or shot blasting is done to achieve a surface profile of 150-200 microns.

Apply Cipoxy FP as primer, broadcast DF anti-slip grains evenly on the primed area during tacky state. Allow to cure overnight, remove unstuck grains on next day. Cipothane 4 K is supplied in pre-weighed kits. Unpack resin and hardener and pour into the mixing bowl, add EPI and aggregates into the bowl under slow speed agitation. Mixing is continued for 5 minutes and then apply by roller or squeeze, allow to cure over night.

Packaging

Cipothane 4K is available in pre-weighed packs 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 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.

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.

Ref.: CPPL/06-21/0097/R-1



Cipy Polyurethanes Pvt Ltd

T-127, MIDC, Bhosari, Pune - 411 026

Tel. +91-20-66316400 / Fax : +91-20-66316460

Email : info@cipyurethane.com

