

# Cipothane SL

## 2 component, resilient EPU self-smoothing flooring

### Description

Cipothane SL is a two component, solvent-free, EPU self levelling floor topping, recommended for industries like Pharma, Engineering, Food, Automobile, Auto Components etc. Cipothane SL is characterised by the hybrid properties of epoxy and polyurethane resins such as moderate flexibility, excellent toughness, and wear resistance. It is applied as self-smoothing topping over primed or screeded surfaces. Cipothane SL is a pure resin-rich system, consisting of resin and hardener only, with no aggregates added to the system at the site.

### Uses

As self-levelling floor coating for all types of industries :

- Food industry
- Pharma
- Health Care
- Automotive
- Breweries
- Aircraft Hangars

### Key features

- Resilient
- Solvent-free
- High abrasion resistance
- Excellent gloss
- Good chemical resistance
- Resin-rich, no filler addition



**Certified**

### Properties

Type	: EPU
Finish	: Glossy
Colour	: Available in RAL shades
Pot life @ 27°C ASTM D 2471	: ≥ 50 minutes
Recommended DFT ASTM D 7091	: 1000 microns
Solids content by weight ASTM D 2369	: 100%
Application	: By trowel
Drying time @ 25°C ASTM D 1640	
Surface dry	: ≥ 3 hrs
Tack free dry	: ≥ 8 hrs
Hard dry	: ≥ 24 hrs
Recommended thinner Clean up	: PUT 502
Shelf life	: 12 months in the unopened container

### Performance data

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

Abrasion resistance ASTM D 4060-2019	: Maximum 20 mg loss
Impact resistance ASTM D 2794-1993	: 9.81 Joule (falling wt - 1 kg)
Pull off adhesion ASTM D 7234-2022	: 2 MPa (Concrete failure)
Slip resistance, Pendulum test EN 13036-4-2011	: 48 PTV Low slip potential

### Other mechanical properties

Flexural strength ASTM D 790	: 5.5 MPa
Tensile strength ASTM D 638	: 10 N / mm <sup>2</sup>
Elongation ASTM D 638	: 4%
Shore D Hardness ASTM D 2240	: 67
Scratch resistance IS 101-Part 5 Sec 2	: Pass (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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## APPLICATION INSTRUCTIONS

### Surface preparation

The long-term durability of the applied Cipothane SL 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, 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. All concrete surface to be prepared using shot blasting machine or grinding to achieve CSP 3-4.

### Priming

All substrates to be treated with Cipothane SL, should be primed with Cipoxy 17 /18. Primer to be mixed in the proportions supplied by adding the entire contents of hardener can to the base can. Once mixed the material 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. 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

Cipothane SL is supplied in pre-weighed packs ready to use on site. 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. The material is poured onto the primed substrate and spread to the required thickness with a notched trowel. De-aerate the layer by a spike roller and allow to cure for 24 hours

### Packaging & Theoretical coverage

Cipoxy 17	: Resin and Hardener available in 20 litre packing	: 1 litre covers 5 sqm @ 200 microns
Cipoxy 18	: Resin and Hardener available in 20 litre packing	: 1 litre covers 5 sqm @ 200 microns
Cipothane SL	: Pre-weighed set of 15.97 kg (Clear set)	: 1 set cover 10 sqm @ 1mm
EPI - pigment for top coat	: Available in 400 gms packing to be mixed with Cipothane SL	

### 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.

### 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. 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.

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## 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

Self-smoothing is a term used in the flooring industry to describe a composition which after being spread to a uniform layer of appropriate thickness, develops a smooth, resin-rich surface. This self-smoothing action is very localized and does not eradicate irregularities of level present in the original substrate. It is most important, therefore, that adequate surface preparation and repair is undertaken prior to application. It is not compatible for application over asphalt, unmodified sand-cement screeds or PVC tiles and sheets. Cipothane SL 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.

## Other Products Categories available

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