

Cipothane SL 1000

Four component, self smoothing EPU flooring

Description

A four component, self smoothing floor topping, Cipothane SL 1000 is based on epoxy resin fused with urethane linkages. The system is supplied in pre weighed packs, ready to mix and use, which provides a hard wearing, chemical resistant, flexible, impervious and easy to clean seamless flooring. The kit consists of resin, hardener, epi and formulated aggregates, yielding 10 sq m @ 1mm thickness

Uses

Cipothane SL 1000 is recommended for floor toppings in :

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

Key features

- Excellent adhesion
- Excellent self levelling properties
- Excellent chemical resistance
- Good abrasion resistance
- Moderate flexibility
- Good impact resistance

Properties

Type	: EPU
Mixing ratio	: Pre-weighed packs with resin, hardener, aggregates
Finish	: Smooth glossy
Colour	: Available in RAL shades
Pot life @ 27°C	
ASTM D 2471	: ≥ 30 min
Recommended WFT	
ASTM D 4414	
Cipothane SL 1000	: 1000 microns
Recommended DFT	
ASTM D 7031	
Cipothane SL 1000	: 1000 microns

Drying time	
ASTM D 1640	
Surface dry	: ≥ 2 hrs
Tack free dry	: ≥ 8 hrs
Hard dry	: ≥ 24 hrs
Recommended thinner	
Clean up	: PUT 502
Shelf life	: 12 months in the un-opened container

Performance data

Compressive strength	
ASTM D 695	: ≥ 38 MPa
Tensile strength	
ASTM D 638	: ≥ 5 MPa
Abrasion resistance	
ASTM D 4060	: ≤ 50 mg loss
Elongation	
ASTM D638	: 7%
Impact resistance	
ASTM 2794	: 9 Nm
Pull off adhesion	
ASTM D 4541	: ≥ 2 MPa

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.

Directions to use

Surface preparation

The long-term durability of the applied Cipothane SL 1000 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.

Cipothane SL 1000

Four component, self smoothing EPU flooring

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 Cipothane SL 1000 coating, should be primed with Cipoxy 11/15 primer should be mixed in the proportions supplied by adding the entire contents of hardener can to the base can. Once mixed the Cipoxy 11/15 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 11/15 primer. Cipoxy 11/15 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.

Mixing & Application

Cipothane SL 1000 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. Deaerate the layer by a spike roller and allow to cure for 24 hours.

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 1000 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.

Packaging

Cipothane SL 1000 (Clear) is available in pre-weighed kits weighing 16 kgs.

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.

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.

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.: DRCIPY/05-22/005



Pidilite Industries Ltd

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

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

Email : drcipy@pidilite.com

