FK 333

Aliphatic polyurethane floor coating



Description

FK 333 is an aliphatic polyurethane based roll-on floor coating for exterior & internal applications, available in both gloss and matt versions. It is the most suitable top coating with high abrasion resistant made it suitable for highly trafficked areas.

Uses

■ UV resistant and colour stable coating on resin topping (Epoxy, PU, PU Concrete & IPN) for internal and external applications.

Key features

- UV resistant and colour stable
- Fast curing
- Extremely high abrasion resistant
- Good chemical resistance
- Available in both gloss and matt finish

Properties

Туре	: Aliphatic polyurethane	Mixing ratio	: 1:1 by volume	
Finish	: Glossy / Matt	Colour	: Desired shade	
Pot life @ 27°C ASTM D 2471	: 90 minutes	Volume Solids ASTM D 2697	: 53%	
Drying time ASTM D 1640	. > 2 hrs	Recommended DFT ASTM D 7091	: 150 microns	
Surface dry Tack free dry Hard dry	: ≥ 3 hrs : ≥ 6 - 7 hrs : ≥ 24 hrs	Application	: By roller / brush	
Recommended thinner	: PUT 502 (Clean up)	Shelf life	: 6 months in the unopened containe	er

Performance data:

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

Pull of adhesion test ASTM D 7234-2022	: ≥ 2 MPa for M20 grade concrete or Concrete failure
Abrasion resistance ASTM D 4060-2019 CS 17, 1 kg, 1000 cycles	: Maximum 20 mg loss
Pendulum test Slip resistance BS 8204	: 45-50 (Low risk of slip)

Other mechanical properties

Tensile strength ASTM 638	: ≥3 MPa
Elongation ASTM 638	: 45-50%

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

FK 333

Aliphatic polyurethane floor coating



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 for concrete

The long-term durability of the applied FK 333 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 scrabbling, 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 achieve required concrete surface profile between 2-3.

Surface preparation on existing resin topping

Prepare the surface by mechanical abrading to remove contamination and any laitance if any, followed by wiping the surface using Dr.Cipy Bond TC. No priming is required on existing resin topping.

Priming required on concrete surface

Concrete substrates to be treated with FK 333 coating, should be primed with Cipoxy 17/18. The primer should 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. It 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

FK 333 Resin and Hardener is supplied seperately in 20 litre packs. Mix the same in the recommended ratio of 1:1 by volume. 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 painting roller and allow to cure for 24 hours.

Packaging & Coverage

FK 333 : Resin and Hardener available : 1 litre covers 6 sqm @ 75 microns DFT in

in 5 & 20 litre packing one coat. 2 coats required.

Cipoxy 17 / 18 : Resin and Hardener available : 1 litre covers 5 sqm @ 200 microns DFT

in 20 litre packing

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. It contains inflammable solvents. Handle with care. Mix resin and hardener as per the ratio. Use the mix solution within the pot life time. 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 or smoking. It is recommended to wear gloves, goggles and nose masks while application. Incase 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.

FK 333

Aliphatic polyurethane floor coating



Do's

Clean regularly

Remove aggressive chemical spillage immediately

Maintain wheel for proper rolling, should not get dragged. Nylon / teflon wheel trolleys are recommended

Immediately clean spillage of any oil or fatty liquid which may cause accident during people's movement

Don't

Drag any sharp and heavy object. Movement of metal wheel trolley

Expose to fire or welding spark

Expose to very high temperature than recommended by Manufacturer

Drop down any 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. FK 333 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.

Other Products Categories available Dr.Cipy brings you the widest range of Flooring Systems























Pidilite Industries Ltd.

T-127, MIDC, Bhosari, Pune - 411 026 Tel. +91-20-66316400

Email : drcipy@pidilite.com

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.