

Description

FK 333 G is an aliphatic polyurethane based roll-on floor coating for exterior & internal applications. It is the most suitable top coating with high abrasion resistant made it suitable for 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
- Quick overcoating time
- Extremely high abrasion resistant
- Good chemical resistance

Properties

Туре	: Aliphatic polyurethane	Mixing ratio	:	1 : 1 by volume	
Finish	: Glossy	Colour	:	Desired shade	
Pot life @ 27ºC ASTM D 2471	Volume Solids ASTM D 2697	:	53%		
Drying time ASTM D 1640		Recommended DFT ASTM D 7091	:	150 - 300 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 container	

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	Tensile strength ASTM 638	
		 Elongation 	
Abrasion resistance ASTM D 4060-2019 CS 17, 1 kg, 1000 cycles	:12 - 14 mg loss	ASTM 638	
Impact resistance ASTM D 2794 - 1993	: 9.81 Joule	Scratch resistance IS 101 (Part 5 / Sec - 2)	
Pendulum test Slip resistance BS 8204	:56 (Low slip potential)	Pressure upto 4 kg	

: ≥ 6 N/mm² ≥ 45%

Other mechanical properties

Pass (No Rapture)

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



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 using diamond tip grinding machine similar to Blastrac BG-250 E or equivalent. No priming is required to overcoat 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. Overcoating window time on applied primer should not exceed 24 hours.

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** 5-8 hours at 27 degree C before applying second coat. In case overcoating time exceed 8 hours, abrade the surface using diamond tip grinding machine before application of subsequent coating.

Packaging & Coverage

FK 333	:	Resin and Hardener available in 5 & 20 litre packing each	:	1 litre (Resin + Hardener) covers 5.3 sqm @ 100 microns DFT in one coat. Mixing Ratio of R:H - 1:1 by volume
Cipoxy 17 / 18	:	Resin and Hardener available in 20 litre packing each	:	1 litre (Resin + Hardener) covers 5 sqm @ 200 microns DFT Mixing Ratio of R:H - 1:1 by volume

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.

Don't

Do's

Clean regularly	Drag any sharp and heavy object. Movement of metal wheel trolley		
Remove aggressive chemical spillage immediately			
Maintain wheel for proper rolling, should not get dragged.	Expose to fire or welding spark		
Nylon / teflon wheel trolleys are recommended	Expose to very high temperature than recommended by Manufacturer		
Immediately clean spillage of any oil or fatty liquid			
which may cause accident during people's movement	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



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