

# Floorkote 300

## Solvent-free polyurethane floor coating

### Description

Floorkote 300 is a two component, solvent-free, polyurethane coating recommended for high film build applications. It is applied over primed or screeded layer. It is fast setting and has a very limited pot life once the resin and hardener are mixed together.

### Uses

- As high build coating on floors and decks
- As anti-skid floor coating along with the broadcast of silica sand

### Key features

- Solvent-free
- High abrasion resistance
- Flexible enough to have crack bridging ability
- Fast curing



**Certified**

### Properties

Type	: Aromatic PU	Mixing ratio	: Pre-weighed packs
Finish	: Semi Glossy, slightly textured.	Colour	: Desired shade
Pot life @ 27°C ASTM D 2471	: ≥ 35 minutes	Solids content by wt ASTM D 2369	: 97%
Drying time ASTM D 1640		Recommended DFT ASTM D 7091	: 300 - 600 microns
Surface dry	: ≥ 90 minutes	Application	: By roller
Tack free dry	: ≥ 4.30 hrs	Shelf life	: 6 months in the unopened container
Hard dry	: ≥ 24 hrs		
Recommended thinner Clean up	: PUT 502		

### 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 / Concrete failure
Impact resistance IS 101(Part 5 / Sec 3)	: Pass (1.8 kg - 100 cm)
Abrasion resistance ASTM D 4060-2019 CS 17, 1 kg 1000 cycles	: Maximum 50 mg loss

### Other mechanical properties

Tensile strength ASTM D 638	: 19 MPa
Elongation ASTM D 638	: 31%
Flexural strength ASTM D 790	: 4 MPa
Shore D ASTM D 2240	: 50
Slip resistance BS 8204	: 36-40 (moderate low risk of slip)

**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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### 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.

### APPLICATION INSTRUCTIONS

#### Surface preparation

The long-term durability of the applied FLOORKOTE 300 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. 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 CIPOXY FP / FLOORPRIME. 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 FP / FLOORPRIME. Primer should be allowed to become tack free prior to application. Primer coverage will depend on the texture and porosity of the substrate and the application thickness. Broadcast DF (150/200/300) anti-slip grains evenly on the primed area during tacky state and allow to cure overnight. Remove unstuck grains on next day.

#### Mixing & Application

Mix thoroughly all components of Floorkote 300 for 3-4 minutes using slow speed drill fitted with helicle mixer and apply by a roller. For levelling and de-aeration, spike rollers are used. Allow to cure over night.

#### Packaging - 9 kg pre weighted set

Floorkote 300 is available in pre weighed pack of 9 kgs which contains Resin : 6.75 kgs, Hardener : 2.25 kgs and has a maximum shelf life of 6 months in the un-opened 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.

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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

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