

# FK 666

## Aromatic polyurethane coating

TYPE 3 EFNARC GUIDELINE

HIGH BUILD FLOOR COATING

### Description

FK 666 is an aromatic polyurethane based roll-on floor coating, specially designed for interior applications. It has excellent adhesion over epoxy and PU primed surfaces and offers excellent gloss, hardness and wear resistance. Apart from using as regular thin floor coating, FK 666 is especially recommended for yellow banding over coated floorings.

### Uses

- FK 666 is used as top coat for many Dr.Cipy Floorcote systems such as Cipoxy, FK or Cipothane systems
- It is used as coating for yellow bandings
- It is applied over primed or self levelled surfaces.

### Key features

- Fast curing
- Good abrasion resistance
- Excellent gloss
- Good hardness

### Properties

Type	: Aromatic polyurethane	Mixing ratio	: 1 : 1 by volume
Finish	: Smooth Glossy	Colour	: Yellow shades
Pot life @ 27°C ASTM D 2471	: 60 minutes	Volume Solids ASTM D 2697	: 61%
Drying time ASTM D 1640		Recommended DFT ASTM D 7091	: 75-100 microns / coat 2 coats recommended
Surface dry	: ≥ 50 min	Application	: By roller / brush
Tack free dry	: ≥ 3 hrs		
Hard dry	: ≥ 24 hrs		
Recommended thinner	: PUT 502 (Clean up) PUT 509 (Dilution)	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

Abrasion resistance  
ASTM D 4060-2019  
CS 17, 1 kg, 1000 cycles : Maximum 100 mg loss

### Other mechanical properties

Tensile strength  
ASTM 638 : 27 MPa

Elongation  
ASTM 638 : 8%

**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, alkalis 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 FK 666 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 scabbling, 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.

### Mixing & Application

FK 666 Resin and Hardener is supplied separately in 1 litre packs. Coating of FK 666 on well cured epoxy coatings needs elaborate sanding to achieve mechanical key for better anchoring. Mix FK 666 resin and hardener in 1 : 1 ratio by volume. Agitate the mixture for 2-3 minutes. Apply by roller / brush. Apply second coat with an intercoat interval of 3-4 hours. Allow to cure over night. Allow trafficking after hours of curing.

### Packaging & Coverage

FK 666 : Resin and Hardener available in 1 litre : 1 litre covers 6 sqm @ 100 microns / 2  
packing coats are recommended

### 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. 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.

#### 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

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### Limitations

It is not compatible for application over asphalt, unmodified sand-cement screeds or PVC tiles and sheets. FK 666 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

