

FK 111 M

Highly abrasion resistant PU floor coating

Description

The industry's work horse floor coating, FK 111 M is an aromatic polyurethane based, roll-on floor coating for interior applications. It has excellent adhesion over properly primed surfaces and excellent chemical and abrasion resistance. FK 111 M offers the highest abrasion resistance among the contemporary floor coatings available in the country. M denotes for matt finish.

Uses

- FK 111 M is used as a hard wearing top coat for floors where high abrasion resistance is needed
- Highly recommended for light and heavy engineering industries
- It is recommended as maintenance coating over existing epoxy floorings
- It is recommended for chemical spillage areas

Key features

- Fast curing
- Excellent abrasion resistance
- Excellent chemical resistance
- Excellent bond on epoxy and EPU undercoats

Properties

Type	: Aromatic urethane
Mixing ratio (R:H)	: 2 : 1 by volume for matt version
Finish	: Matt
Colour	: Desired shade
Pot life @ 27°C	
ASTM D 2471	: 60 - 90 min
Volume solids	
ASTM D 2697	: ≥ 50%
Recommended WFT	
ASTM D 4414	: 200 microns
Recommended DFT	
ASTM D 7091	: 100 microns

Drying time	
ASTM D 1640	
Surface dry	: ≥ 30 min
Tack free dry	: ≥ 3 hrs
Hard dry	: ≥ 24 hrs
Theoretical coverage	: 5 sq m / litre / coat @ 100 microns
Application	: By roller / brush
Recommended thinner	
Clean up	: PUT 502
Shelf life	: 6 months in the un-opened container

Performance data

Tensile strength	
ASTM D 638	: ≥ 5 MPa
Elongation	
ASTM D 638	: ≥ 20 %
Abrasion resistance	
ASTM D 4060	: ≤ 30 mg loss
Pull off adhesion test	: ≥ 2 MPa for M20 grade concrete or Concrete failure
ASTM D 4541	
Pendulum test	
Slip resistance	
BS 8204	: 40 - 70

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

Ensure that the surface to be top coated is smooth, zero levelled and free of any surface impurities.

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Before applying FK 111 M directly on cured epoxy layer create a mechanical key for anchoring by thorough sanding. FK 111 M resin is available in pigmented and non pigmented version, stir it well before mixing. Mix FK 111 M resin, add colour pigment if not pigmented and FK 111 M hardener in 2:1 ratio by volume and mix by mechanical stirrer for 2-3 minutes. Apply by roller / brush to a required thickness and allow to dry for 3-4 hours. Apply a second coat and allow trafficking after 24 hours of curing..

Packaging

FK 111 M is supplied in 15 litre packs which contains 9 lts resin, 1 lts of EPI and 5 lts of Hardener and has a maximum shelf life of 6 months in 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. It contains inflammable solvents. 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.

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.: CPPL/06-21/0026/R-1



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