

Floorprime M

Solvent free, flexible polyurethane primer and screed

Description

Floorprime M is a solvent-free, two component polyurethane based primer coat recommended for concrete and masonry substrates. It has excellent adhesion to concrete and other cementitious substrates. It can also be used as a self levelling screed with the aid of graded aggregates like FQ 90 with mix ratio of 1 :1 later broadcast with DF 200 /DF 300 or equivalent for various thickness and desired texture.

Uses

- Floorprime M is used as primer and / or screed in conjunction with polyurethane range of floor toppings and DeckFloor systems

Key features

- Excellent adhesion
- Excellent impact resistance to heavy and mechanical loads
- Flexible and resilient
- Excellent bond to PU and epoxy top coats

Properties

Type	: Aromatic urethane
Mixing ratio	: 3 : 1 by wt
Colour	: Hazy, Brownish
Pot life @ 27°C	
ASTM D 2471	: ≥ 25 min
Solids content	
ASTM D 2369	: ≥ 98%
Recommended DFT	
ASTM D 7091	: 150 microns
Drying time @ RH 50%	
ASTM D 1640	
Surface dry	: ≥ 30 min
Tack free dry	: ≥ 3 hrs
Hard dry	: ≥ 24 hrs
Theoretical coverage	: 0.15 kgs / sq mt / primer coat

Application for primer	: By brush / roller
Application for screed	: By steel trowel / notch trowel and spike roller to remove entrapped air
Dilution	: Strictly not recommended
Clean up thinner	: PUT 502
Shelf life	: 6 months in the unopened container

Performance data

Compressive strength	: ≥ 40 MPa
ASTM D 695	
Flexural strength	
ASMT D 790	: ≥ 15 MPa
Adhesion pull off	: ≥ 2 MPa for M20 grade concrete or Concrete failure
ASTM D 4541	
Tensile strength	
ASTM D 638	: ≥ 7 MPa
Elongation	
ASTM D 638	: ≥ 15 %

Directions to use

Before primer application, CDS (Clean, Dry and Sound) test is conducted on the concrete. Moisture test is conducted by moisture meter or plastic sheet method (ASTM D4263 : Standard test method for indicating moisture in concrete). The residual moisture should not be more than 5%. Surface preparation like scarification, grinding or shot blasting is done to achieve a surface profile of 150-200 microns. Mix Floorprime M resin and Floorprime M hardener in the ratio of 3:1 by weight and agitate the mixture for 2-3 minutes. Apply by roller / brush @ coverage of 0.15 kg / sqm and allow to cure for 5-6 hours. The primed surface is now ready to receive screed / top coat. For screed mix 0.4 kg of Floorprime M and 0.4 kg of FQ 90/ sq mt area, stir for 2-3 mins and apply by trowel and spike to remove entrapped air.

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Broadcast DF 200/ DF 300 or equivalent for desired thickness and texture.

Packaging

Floorprime M is available in 4 kg pack which contains 3 kgs Resin and 1 kg Hardener and has a maximum shelf life of 6 months in the unopened container.

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.

Health & Safety precaution

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.

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