

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 mechanica loads
- Flexible and resilient
- Excellent bond to PU and epoxy top coats

Properties

Type	: Aromatic polyurethane	Mixing ratio	: 3 : 1 by weight
Colour	: Hazy, Brownish	Solids contents by wt ASTM D 2369	: 94%
Pot life @ 27°C ASTM D 2471	: ≥ 45 minutes	Recommended DFT ASTM D 7091	: 150 microns (primer)
Drying time ASTM D 1640		Application: primer	: By Brush / roller
Surface dry	: 80 minutes	Application : screed	: By steel trowel / notch trowel and spike roller to remove entrapped air
Tack free dry	: ≥ 3 hrs		
Hard dry	: ≥ 24 hrs		
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
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Other mechanical properties : Primer

Shore D ASTM D 2240	: 25-28
Elongation ASTM D 638-2014	: 48%
Tensile strength ASTM D 638-2014	: 11 MPa

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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APPLICATION INSTRUCTIONS

Surface preparation : The long-term durability of the applied Floorprime M 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 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.

Mixing and Application : Floorprime M Resin and Hardener is supplied separately in 20 lts packing. Mix Resin and Hardener in the ratio of 3:1 by weight. 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 prepared substrate and spread to the required thickness with a painting roller / stiff brushes. Porous floors may require two coats of Floorprime. It should be allowed to become tack free prior to application of screed / intermediate layer.

Packaging and theoretical coverage

Floorprime M : Resin and Hardener packed in 20 lt packing : 0.15 kgs per sqm

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 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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