

Floorflex

Aromatic polyurethane flooring membrane

Description

Floorflex is a solvent free, two component, polyurethane based membrane to render a film thickness from 400 microns to 2000 microns. Floorflex is flexible, yet tough, designed to provide an elastomeric coating on concrete substrates. It possesses a unique balance of tensile strength, elongation and hardness, resulting in outstanding flexibility, wear and impact resistance. It is used as a crack bridging membrane for deck coatings for multi storey car parks.

Uses

- Car decks
- Pedestrian walkways
- Parking areas
- Jetty

Properties

- Fast setting
- Able to bridge concrete cracks
- Excellent bond to undercoats and topcoats



Certified

Properties

Type	: Aromatic polyisocyanate based	Mixing ratio	: 3 : 1 by weight
Potlife at 27°C ASTM D 2471	: 45 minutes : primer 35 minutes : screed	Solids content by weight ASTM D 2369	: 99%
Drying time ASTM D 1640		Application	: By roller / trowel
Surface dry	: ≥ 1.30 hrs	Recommended DFT ASTM D 7091	: 400 - 2000 microns
Tack free dry	: ≥ 3.30 hrs	Shelf life	: 12 months in the unopened container
Hard dry	: ≥ 24 hrs		
Recommended thinner	: PUT 502 (Clean up)		

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
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Other mechanical properties

Crack bridging ability EN 1062-7-2004 A	: Passes
Tensile strength ASTM D 638	: ≥ 7 N/mm ²
Elongation ASTM D 638	: 92%
Flexural strength ASTM D 790-2017	: 0.66 N/mm ²

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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Direction to use

Ensure that CDS (Clean, Dry and Sound) test is conducted on the concrete substrate. Surface preparation like grinding or shot blasting is done to achieve a surface profile of 150-200 microns. Apply Cipoxy 16 / 18 as primer and allow to part cure for 1 hour. Broadcast evenly the selected quartz sand (FQ Sand 40 or 60) @ 1-2 kg per sq m. Allow to dry for 6-7 hours. Mix Floorflex resin and hardener in the weight ratio of 3:1 for 4-5 minutes and apply by a roller. Pigment to be added for any specific colours required..

Packaging

Floorflex is available in pre-weighed packs, Resin : 3 kgs and Hardener - 1 kg and has a maximum shelf life of 6 months in the un-opened containers.

Theoretical Coverage :

1.26 kg will cover 1 sqm @ 1mm (Based on the design, suitable fillers / aggregates can be added except for Roof applications).

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. Incase 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. Incase of contact with eyes, rinse with plenty of water and seek medical advice. Incase of continuous exposure to vapours, 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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