

Floorflex

Aromatic polyurethane 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

Properties

- Fast setting
- Moderately abrasion resistant
- Able to bridge concrete cracks
- Resistant to fuel, brake oils and acids
- Excellent bond to undercoats and topcoats

Properties

Type	: Aromatic poly-isocyanate based
Mixing ratio (R:H)	: 3 : 1 by weight
Pot life @ 27°C ASTM D 2471	: ≥ 25 min
Solid content by weight ASTM D 2369	: ≥ 98%
Drying time ASTM D 1640	
Surface dry	: ≥ 1 hour
Tack free dry	: ≥ 3 hours
Hard dry	: ≥ 24 hours
Theoretical coverage without aggregates	: 1 sq m / kg / coat @ 1000 microns
Application	: By roller / trowel
Recommended thinner	
Clean up	: PUT 502
Shelf life	: 6 months in the un-opened container

Performance data

Compressive strength ASTM D 695	: ≥ 40 MPa
Tensile strength ASTM D 638	: ≥ 7 MPa
Flexural strength ASMT D 790	: ≥ 18 MPa
Elongation ASTM D 638	: ≥ 90 %
Flexibility 1/8" conical mandrel test ASTM D 522	: Passes
Crack bridging ability 2mm	: Passes
Pull off adhesion test ASTM D 4541	: ≥ 2 MPa for M20 grade concrete or Concrete failure

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 / Floorprime M 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.

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.

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.

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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 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.

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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Cipy Polyurethanes Pvt Ltd

T-127, MIDC, Bhosari, Pune - 411 026

Tel. +91-20-66316400 / Fax : +91-20-66316460

Email : info@cippolyurethane.com

