

Durafill

High strength PU concrete repair mortar

Description

DuraFill is a three component, PU Concrete mortar designed for filling up of undulations such as pot holes, patches, depressions of the concrete substrates for subsequent placement of Duracrete floor toppings. DuraFill is suitable for use as repair and levelling mortar and can be applied at thickness from 2mm to 10mm.

Uses

As a universal screed for any flooring system as well as patch repair compound, highly recommended for Duracrete systems.

Key features

- Excellent adhesion to various substrates
- Water based
- High impact resistance
- Fast setting

Properties

Type	: PU Concrete
Mixing ratio (R:H)	: As per set
Mixed density ASTM D 1475	: 2.13 ±0.03 gm/cc
Pot life @ 27°C ASTM D 2471	: 10 - 15 min
Solids % ASTM D 2369	: ≥ 70%
Drying time ASTM D 1640	
Surface dry	: 1-2 hrs
Tack free dry	: 3-4 hrs
Hard dry	: 24 hrs
Shelf life	: 6 months in the un-opened container

Performance data

Compressive strength ASMT D 695, 28 days	: 40 - 45 MPa
Tensile strength ASTM D 638	: 3 - 4 MPa
Flexural strength ASTM D 790	: 11 - 14 MPa
Adhesion test, pull off ASTM D 4541	: Concrete failure

Directions to use

Ensure that CDS (Clean, Dry & Sound) test is conducted on the concrete. Surface preparation like scarification, grinding or shot blasting is done to achieve a surface profile of 150-200 microns. Apply Aquoxy 50 as primer and allow to part-cure for 2-3 hrs. Unpack Durafill resin and hardener into a mixing vessel and mix for 1 min, add aggregates and continue mixing for another 2-3 minutes. Lay the screed by a trowel to the desired thickness. Allow the screed to cure.

Packaging

Durafill is available in pre-weighed kits of 14.2 kg (Resin – 1 kg, Hardener – 1.2 kg and Aggregates- 12 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 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

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