

Cipcem HD

High strength cementitious underlay

Description

Cipcem HD is a one part, cementitious mortar designed for filling up of undulations such as pot holes, patches, depressions of the concrete substrates for subsequent placement of polymeric floor toppings. Cipcem HD is suitable for use as repair and levelling course and can be applied at thickness from 5mm to 40mm.

Cipcem HD is a one part system, consisting of selected cements, plasticizers, additives and graded aggregates which requires only the addition of water for mixing and laying

Uses

- Ideal for use for unlevelled concrete for overlaying resilient floorings.
- Used as underlay for deck floorings

Key features

- One component
- High strength
- Minimum shrinkage
- Excellent adhesion to various substrates
- Low emission

Performance data

Compressive strength	
3rd day	: ≥ 20 MPa
28th day	: ≥ 40 MPa
Adhesion pull off test	
ASTM D 4541	: ≥ 5 MPa
Flexural strength	
ASTM D 790	
After 7 days	: ≥ 3.5 MPa
Pot life (after mixing water)	: ≥ 25 minutes
Flow life	: ≤ 15 minutes
Setting time	
ASTM C 191	
Initial set	: ≥ 40 minutes
Final set	: ≥ 24 hours

Density of the screed : 2 g / cc

Directions to use :

Cipcem HD is recommended for interior applications only. The floor to be treated must be free from dust, loosely adhered material, cement plaster, grease and paints. Cipcem HD cannot be applied on weak and friable surfaces.

Priming

A prime coat of Hydrokrete is needed before applying Cipcem HD, especially for porous substrates. Primer is to seal the surface porosities and prevent air bubbles coming out of the porous substrates.

Screeding

Mixing of Cipcem HD and water should be done in clean mixing bowl with the aid of paddle mixer. Add the appropriate amount of water (5 litres) for 25 kg bag and then add the powder component slowly under stirring. Mix for a minimum of 3 minutes until a lump free fluid mortar is produced. Do not add more than 5.5 litres of water.

Laying

Pour the compound on to the substrate while the primer is still tacky. Trowel lightly to achieve the required thickness using a notched trowel or plain trowel. Immediately after laying, roll the surface with spike roller which will release air bubbles, trapped in the substrate. The screed layer is allowed to cure at ambient temperature

Curing

Cipcem HD will self smoothen after application and the trowel marks will disappear. No curing is required although protection should be given to prevent rapid drying out. In hot, dry conditions, cure with water and wet hessian sheets for two days. Protection from pedestrian traffic is required at least for a minimum of 48 hours.

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Coverage

Coverage depends on various factors like porosity, absorptions and undulations. Typically a coverage rate of 5 sq m @ 3mm thickness and 3 sq mt @ 5mm is recommended with 1 bag (25 kgs) of Cipcem HD.

Packaging and storage

Cipcem HD is supplied in 25 kg units with a maximum shelf life of 9 months provided it is stored under cover, out of direct sunlight.

Health and safety precautions

Cipcem HD does not fall into the hazard classifications of current legislations. Suitable protective gloves and goggles should be worn while using Cipcem HD. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. For further information refer to the Material Safety Data Sheet available for this product.

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 test carried out by us and guaranteed accurate.

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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