

Cipoxy 17

Solvent-free epoxy primer and self-levelling screed

Description

A solvent-free, two component epoxy-polyamine based, medium viscosity primer-cum-screed, Cipoxy 17 is recommended as primer and screed for concrete substrates. Being a viscous material, Cipoxy 17 forms a thick coating which will close the normal porosities of the concrete.

Uses

Cipoxy 17 is used as primer as well as screed as a part of both Cipoxy and DeckFloor range of floor toppings.

Key features

- Excellent adhesion
- Excellent levelling properties
- Excellent bond to epoxy, EPU & PU top coats

Properties

Type	: Epoxy-polyamine
Mixing ratio (R:H)	: 1 : 1 by volume
Appearance	: Clear glossy
Pot life @ 27°C	
ASTM D 2471	: ≥ 45 min
Solids content by weight	
ASTM D 2369	: ≥ 98%
Recommended DFT	
ASTM D 7091	: 200 microns
DFT to be evaluated based on volumetric consumption per sq mt	
Drying time	
ASTM D 1640	
Surface dry	: ≥ 2 hrs
Tack free dry	: ≥ 8 hrs
Hard dry	: ≥ 24 hrs
Theoretical coverage	: 5 sq m / litre / coat @ 200 microns
Application	: By brush / roller
Recommended thinner	
Clean up	: PUT 502
Shelf life	: 12 months in the un-opened container

Performance data

Tensile strength	
ASTM D 638	: ≥ 9 MPa
Elongation	
ASTM D 638	: ≥ 1.8 %
Flexural strength	
ASTM D 790	: ≥ 15 MPa
Compressive strength	
ASTM D 695	: ≥ 40 MPa
Pull off adhesion test	
ASTM D 4541	
On concrete	: ≥ 2 MPa for M20 grade concrete or concrete failure

Directions to use

The concrete needs 28 days cure so as the residual moisture to reach within the acceptable level of 4-5%. Surface preparation like shot blasting or grinding is done in order to achieve a surface profile of 150-200 microns. The recommended surface profile is SP-2 (Reference: ICRI technical guideline No: 03732). The relative humidity in the concrete slab should not go beyond 80%. The rising moisture vapour emission rate must not exceed 14-15 gms per sqm over a 24 hour period as measured by calcium chloride method, ASTM F 1869.

Conduct CDS (clean, dry and sound) tests on the substrate before applying the primer. Mix Cipoxy 17 resin and Cipoxy 17 hardener in equal proportion by volume. Agitate the mixture for 5-6 minutes. Apply by roller / brush. Allow to cure for 5-6 hours. The primed surface is now ready to receive screed / top coat. As a self-levelling screed, Cipoxy 17 can be combined with formulated aggregates such as FQ 200, FQ 300 & FQ 1000.

All cracks, pot holes and patches are filled in by repair mortars such as Cipicrete, Floorkrete or Cipogel

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Packaging

Cipoxy 17 is supplied as a 5 & 20 lt pack which has a maximum shelf life of 12 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.

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.

Ref.: CPPL/05-19/0149



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