

Aquoxy 50

Waterborne epoxy primer

Description

Aquoxy 50 is based on a chemistry where the standard Bisphenol-A type epoxy resin gets emulsified with the addition of a waterborne cyclo-aliphatic amine to formulate a water thinnable primer. Aquoxy 50 is a permeable two-component primer recommended for both old and new concrete substrates, because of its excellent adhesion to both dry and damp surfaces. It can be top coated with standard Cipoxy and PU coatings.

Uses

- As primer for damp walls and floors
- Used as a primer for areas where water table is high and where the floors are suspected of residual moisture
- As prime coat for systems such as Cipocem, Duracrete and Cipoxy AQSF
- Used as prime coat on walls which is top coated with Aquoxy 60

Key features

- Breathable
- Water thinnable
- Food grade and no odour
- Can be applied on damp surfaces

Properties

Type	: Waterborne epoxy polyamine
Mixing ratio (R:H)	: 2.5 : 1 by volume
Finish	: Smooth glossy
Appearance	: Clear pale yellow
Pot life @ 27°C	
ASTM D 2471	: ≥ 60 min
Volume solids	
ASTM D 2697	: ≥ 53%

Recommended DFT

ASTM D 1186 : 50 microns
DFT to be evaluated based on volumetric consumption per sq mt

Drying time

ASTM D 1640
Surface dry : ≥ 1 hrs
Tack free dry : ≥ 7 hrs
Hard dry : ≥ 24 hrs

Theoretical coverage : 10-11 sq m / litre / coat @ 50 microns

Application : By brush / roller

Recommended thinner

Clean up : PUT 502

Shelf life : 12 months in the un-opened container

Performance data

Pull off adhesion test : ≥ 2 MPa on M20 grade concrete or
ASTM D 4541 concrete failure
On concrete

Directions to use

Moisture test is conducted by moisture or plastic sheet method (ASTM D 4263 : Standard test method for indicating moisture in concrete) The residual moisture should not be more than 4-5%. Surface preparation like scarification, grinding or shot blasting is done to achieve a surface profile of 150-200 microns.

Mix 2.5 parts of resin with 1 part of hardener by volume. Stir well to get a whitish solution. Add 1-2 parts of water to the mixed solution under stirring. Apply by roller / brush and allow to dry. The primed surface is now ready to receive screed or top coat.

Packaging

Aquoxy 50 is available in 5 and 20 litre packs and has a maximum shelf life of 12 months in the un-opened containers.

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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 water 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

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