

Cipoxy BDV 100

Self levelling dielectric epoxy flooring

Description

Cipoxy BDV 100 is a two component epoxy self-levelling dielectric flooring system which has superior electrical insulation properties and maintain a high dielectric strength while providing a long-lasting and attractive atmosphere for work environments and are engineered to minimize breakdown during voltage-induced stress, thus protecting people and valuable equipment from electric shocks. Cipoxy BDV 100 is based on pure liquid epoxy resin and a modified cycloaliphatic amine hardener, which on mixing together in the mixed ratio, provides a hard, chemical resistant, impervious seamless flooring.

Uses

Cipoxy BDV 100 is recommended for floor toppings in high voltage substations, switch gear panel rooms, bus bars, battery rooms etc..

Key features

- Solvent-free
- High dielectric strength and insulation resistance
- High breakdown voltage
- Self levelling
- Good wear resistance
- Excellent chemical resistance
- Excellent cleanability

Properties

Type	: Epoxy-cycloaliphatic amine
Mixing ratio (R:H)	: 2 : 1 by volume
Finish	: Smooth glossy
Pot life @ 27°C ASTM D 2471	: 40 - 50 min
Drying time ASTM D 1640	
Suce dry	: 1 hrs
Tack free dry	: 8 hrs
Hard dry	: 24 hrs
Theoretical coverage	: 1 sq m / litre / coat @ 1000 microns

Shelf life	: 12 months in the un-opened container
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Performance data

Compressive strength ASTM D 695	: 45 - 50 MPa
Tensile strength ASTM D 638	: 20 - 35 MPa
Elongation ASTM D 638	: 2 - 3 %
Abrasion resistance ASTM D 4060	: 45 - 70 mg loss
Flexural strength ASTM D 790	: 20 - 30 MPa
Break down voltage	: 32-34 (in air)

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. Ensure that the residual moisture level in the concrete is not above 5%. Apply Cipoxy 15 as primer and allow to cure for 4-6 hours. Cipoxy BDV 100 contains resin and hardener and the ratio of mixing is 2:1 by volume and mix thoroughly in a paddle type mixer. Mixing is continued till a homogeneous solution is obtained. Lay the mix by a notched trowel to lay the desired thickness. De-aerate the layer by a spike roller and allow to cure for 24 hours.

Packaging

Cipoxy BDV 100 is available in 20 litre buckets and 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.

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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

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@cipypolyurethane.com

