

Estotect E250

Epoxy Resin Based, Non Toxic, High Build Solvent-Free Coating

Description

Estotect E250 is a high gloss non-toxic coating based on solvent-free epoxy resins containing pigments and fine fillers.

It is supplied as a two-pack material in pre-weighed quantities ready for on site mixing and use.

The material can be applied directly to damp or wet prepared concrete or metal surfaces and cures to provide a smooth, hygienic, non-toxic and corrosion resistant surface.

Colour: Blue & White

Uses

As a protective coating for concrete or metal where surfaces are damp or wet and cannot be dried out. The coating is both chemical and corrosion resistant and is suitable for applications to:

- Pipes
- Reservoirs & tanks
- Grain silos
- Water treatment works, breweries & dairies
- Meat and food processing plants

Advantages

- Non toxic, suitable for food areas
- Approved for portable water applications
- Chemical, mould and abrasion resistant
- Can be applied to damp surfaces
- Smooth, glossy, easy to clean surfaces
- Long maintenance-free life
- Solvent free and high build

Physical Properties

Specific Gravity	1.67 (approx)	
Volume Solid	Mixed 100%	
	20°C	30°C
Pot Life	30-40 mins	15-20 mins
Drying Time:	6 hours	3 hours
Touch Dry	7 days	7 days
Fully Dry	6-18 hours	3-12 hours
Recoatable		
Application Temperature	Minimum 5 °C	

Resistance of film:-

The fully cured coat is resistant to:-

- Distilled water
- Chlorinated water
- Marsh water
- Sewage water
- Kerosene
- Sodium hydroxide 25%
- Petrol +
- Gas Oil +
- Phosphoric acid 10% +
- Nickel plating solution +
- Lactic acid 1% +

* May cause surface discolouration

Application Instructions

Surface preparation

All surfaces must be clean and free from dust or loose material. Wet substrates should be sponge-dried to remove all free surface water.

Concrete surfaces: Should be sand blasted, water jet blasted or wire brushed.

Steel surfaces: Should be grit blasted to SA2½ or wire brushed to remove all mill scale and rust.

Running water must be stopped during the application and curing period. Where excessive seepage of leaks occurs consult the technical department.

Mixing

All applications: The contents of the base should be stirred thoroughly to disperse any settlement.

The entire contents of the hardener should be poured into the base container and the two materials mixed thoroughly until a uniform consistency is obtained.

It is recommended that mechanical mixing is employed, using a stirrer on a heavy duty slow speed electric drill.

Underwater applications: Where the material is to be applied underwater, mixing must be carried out thoroughly above water. The mixed material can then be taken underwater for use.

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Application

All applications: Apply material with a brush. The first coat must be firmly applied and be well scrubbed into the surface; ensuring a continuous coating of uniform thickness.

The second coat will cover more readily than the first and should be applied 6-18 hours later, at 20°C.

Faster rates of application are possible using airless spray equipment. A minimum nozzle pressure of 2,000 psi (140 bar) with an orifice size of 0.65 mm (0.026 inch) has been found suitable.

Use of glass fibre reinforcement:

Estotect E250 may be used in conjunction with glass fibre mat to increase coating thickness or where it is necessary to bridge fine cracks in the substrate. The mat should be laid directly onto the first coat whilst it is still wet and should be pressed in and smoothed out with a stiff nylon brush or split washer roller.

Second and subsequent coats may then be applied as necessary, allowing 6-18 hours at 20°C between each coat.

Packing & Size

Estotect E250	5.0 kg pack
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Coverage

Recommended thickness per coat:

Dry film thickness (dft) 200 um

Wet film thickness 200 um

Severe Environment 500 um (dft)

Theoretical coverage: 5m²/ litre for dft of 200 um

Practical coverage: Theoretical coverage is quoted for guidance. Practical coverage may be lower, depending on substrate and application method.

Number of coats: 2


Technical Support

Estop offers a comprehensive range of high performance, high quality of repair product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifies, end-users and contractors, as well as on-site technical assistance.

Storage

12 months shelf life if stored below 25°C.

Precaution

Estotect E250 contains epoxy resin, which may cause skin sensitivity in certain individual. 

Avoid skin contact. Wear suitable gloves and apply cream barrier.

Estotect E250 is non-flammable.

Additional Information

Estop manufactures and offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available. 

Important Note

Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.