

Estotect CT 450

Pitch Extended Epoxy Resin Coating

Description

Estotect CT 450 is a two-part pitch extended epoxy coating, which is able to provide a protection coating to concrete and steel structures against corrosion from aggressive environments.

It is suitable for tanks above or underground conditions, such as pipe linings. It is highly recommended for sewage works, effluent plants and dock and harbour installations.

Uses

Estotect CT 450 is particularly useful as a protection system to concrete or metal surface, such as:

- Sewerage treatment plant
- Manhole
- Underground pipe lining
- Effluent plants
- Dock & harbour structure

Advantages

- High build in single applications
- Heavy duty corrosion protection system
- Easily application can be by brush or spray
- No priming necessary in most cases
- Water, chemical and abrasion resistance

Standards Compliance

- **ASTM B117**
- **ASTM D4541**
- **BS EN ISO 6272-2**
- **DIN1048**

Physical Properties

Number of Component	2
Colour	Black
Finishing	Matt
Number of Coat	1 or 2
Mixing ratio	4:1 by volume of Part A & Part B
Mixed Solid Content, %	85 ± 2
Pot Life at 25°C, mins	120 *Pot life ends when material too viscose to use
Touch dry at 30°C, hours	2
Recoating Time at 30°C, hours	8
Recommended Thickness / coat, micron	225 microns DFT
Salt Spray Resistance Test, ASTM B117	No blistering, no cracking and no detachment observed
Pull-Off Strength, N/mm ² ASTM D4541	> 2.0
Impact Resistance Test, kg- cm BS EN ISO 6272-2	65 max
Resistance to Water Penetration, mm DIN 1048 Pt5:1991	0 (@ 5 bar)

Application Instructions

Surface preparation

Substrate shall be clean and free from laitance, loose particles and previous coatings. It can be prepared through blast cleaning, water jetting and acid etching, wire brushing or grinding.

For steel substrates, it is ideally to blast cleaning to SA2½.

Mixing

Stir each component A and B separately using electrical mixer. Then pour total content of component B into component A and continue to mix for 2-3 minutes. The two parts of **Estotect CT 450** shall be mixed thoroughly until it obtained a smooth and homogeneous mixture before use.

Application

Estotect CT 450 can be applied by brush or spray to give a uniform thickness. Faster rates of application are possible using airless spray equipment. Roller and brush application is only for touch up and for difficult areas. Additional coat may be required to achieve the dry film thickness.

ESTOTECT CT 450 SHALL NOT BE ADDED WITH WATER.

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Cleaning

Tools, etc can be cleaned while the resin is still uncured with solvent cleaner.

Packing & Size

Estotect CT 450	20 L / Set
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Theoretical Coverage

Estotect CT 450	4.0 m ² / L @225 microns DFT
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Technical Support

Denka 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

Estotect CT 450 should be stored on pallets in cool dry conditions. The product will have a shelf life of 12 months if kept in tightly sealed can.

If stored in extreme heat locations the shelf life may be reduced.

Precaution

Estotect CT 450 contains epoxy resins, which may cause skin sensitization in certain individuals. Avoid skin contact, wear rubber or plastic gloves during application.

Additional Information

Denka Construction Solutions Malaysia Sdn Bhd 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.



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