

Estotect CT 450_(i)

High solid polyamide Coaltar Epoxy Protective Coating and Lining for Concrete and Metal

Description

Estotect CT 450(i) is a two components high solid polyamid coaltar epoxy coating, which is able to provide a protection coating to concrete and metal structures.

It is suitable for wide variety of immersion conditions, typically splash zone areas of offshore platform and drilling rigs, piling and bridges and tank lining.

Uses

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

- Tank lining, intermittent or continuous immersion service in crude oil, seawater, fresh water.
- For liquid retaining, storage sumps, pits, basin.
- Cooling tower basin bottom, wall, girder, column, under slab, dike area.
- For marine structures, piling, hulls, and ship bottoms.
- Underground pipe lining
- Dock & harbor structure

Advantages

- Excellent corrosion resistant and good flexibility.
- Easily application can be by brush or spray.
- Self priming surface tolerant, no priming necessary in most cases.
- Good abrasion resistance
- Resistant to high humidity and moisture.

Physical Properties

Specific Gravity, kg/L	1.20
Solid content, %	70 ±2 %
Color	Semi gloss black, dark grey.
Pot life at 25°C	3 hours
Pot life at 32°C	2 hours
Touch dry at 32°C	3 hours
Over coating interval	Min. 7 hours at 32°C Max. 12 hours at 32°C
Full cure	7 days
Recommended thickness	200 – 250 micron
Number of coats	2 time
Temperature resistant	150°C (dry) intermittent 93°C (dry) continuous
VOC, g/L	168 g/L

Application Instruction

Surface preparation

Substrate shall be clean and free from laitance, loose particles and previous coatings. It can be prepare dry abrasive blast, remove abrasive residue or dust from surface.

Dry-abrasive blasting, wet-abrasive blasting, vacuum-assisted abrasive blasting and centrifugal-shot abrasive blasting per ASTM D4259. Used to remove contaminants, laitance, and weak concrete, to expose subsurface voids and to produce a sound concrete surface with adequate profile and surface porosity. For complete instructions, refer to Joint Surface Preparation Standard SSPCSP13/NACE 6. Surface prepare to achieve CSP 2

New Concrete

This concrete must be aged for 28 days and substrate moisture content must be less than 5%. Substrate should be sound and free from contamination such as oil and grease, mortar and paint splashes or curing compound residues. Excessive laitance can be removed by the use of mechanical methods.

Old Concrete

A sound clean substrate is essential to achieve maximum adhesion.

For steel substrates, it is ideally to dry abrasive blast in accordance with ISO -Sa 2 or SSPC – SP 6

Application

The two parts of **Estotect CT 450(i)** shall be mix thoroughly until it obtained a homogeneous mixture, with a slow speed mixer.

Estotect CT 450(i) can be applied by brush or spray to give a uniform thickness. Faster rates of application are possible using airless spray equipment.

*Airless spray

Nozzle tip : 0.46 – 0.58 mm (0.018 – 0.023 inch)

Nozzle pressure : 10 Mpa (approx. 1400 psi)

It is recommended to apply in minimum two coats.

Surface temperature should be 10°C – 49°C

To prevent condensation.

ESTOTECT CT 450(i) SHALL NOT BE ADDED WITH WATER.

Cleaning

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

Packing & Size

Estotect CT 450(i)	20 L sets Base : 10 L Hardener : 10 L
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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.

Coverage

Estotect CT 450(i)	1L/3.0 – 3.5m ² (dry film thickness 200 micron)
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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

Estotect CT 450(i) should be stored on pallets in cool dry conditions. Under these conditions, the product will have a shelf life of 12 months.

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

Precaution

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

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.