



Technical Data Sheet

Ecohard CT30 Coal Tar Epoxy Coating

Description

Ecohard CT30 is a two-component high performance coal tar epoxy with an excellent chemical resistance property which makes it particularly suitable for sewage treatment plants and for aggressive environments.

Applications

Ecohard CT30 is designed for use in applications such as:

- Sewage treatment plants.
- Penstocks
- Non-potable water tank and pipe coating
- Protection of concrete and steel structures submerged in sea water or exposed to tidal or splash zones.
- Lining of manholes, pipes, jetties, piers, ducting and foundations waterproofing.

Advantages

- Excellent adhesion to concrete and steel surfaces.
- Cost effective; does not require primer.
- Suitable for use as a waterproof coating.
- High chemical resistance
- Does not support bacterial growth.
- High abrasion resistance.

Technical properties

Mixed density:	1.15±0.05
Color:	Black
Impact resistance: to BS 3900-E3	Passed
Pot life:	90 mins @ 25°C
Re-coat able time@25°C:	6 -12 hours
Full cure @ 25°C :	After 7days
Recommended film thickness-WFT	200 - 550 microns
Temperature of application from	+5°C – +35°C
Elongation, ASTM D638-2014	> 20%
Solid Content, ASTM D2697-03	> 75%
Water Absorption, ASTM D570-98	< 0.05%

Method of use

Substrate Preparation

Concrete

The Substrate should be sound, clean and free from contamination. Remove all oil, grease, dirt or contaminates from the surface.

- Surface Laitance should be removed by grit blasting or water jetting.
- All exposed blow holes should be filled with epoxy paste using **Ecohard EPFC**

Mixing

- To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.
- Stir the content of each component separately to disperse any settlement. Add the entire content of the hardener to the base and mix for 3 minutes and until uniform color and consistency are achieved.

Application

Ecohard CT30 can be applied by brush, roller, and airless spray machine. The first coat should be applied to obtain a continuous uniform coating. The second coat should be applied within the over coating time to achieve the maximum adhesion between coats.

Coverage

Approximately 5m²/L/200mic(WFT) coat.

Notes:

- The area where **Ecohard CT30** is applied must be protected from any contact with water for at least 30 hours after application. Otherwise, discoloration may occur. Also, in closed areas where the relative humidity is very high, good ventilation is needed and precaution must be taken to insure the full cure of the material.
- **Ecohard CT30** must not be applied over other coatings but can be applied on top of itself within the recoat able times. (6 – 12 hours @25°C).

Disclaimer:

We hope that the information herein will be helpful. The data is based upon knowledge considered to be accurate and true and is offered for the user consideration, investigation and verification in the application intended. We do not warrant the results or performance attained due to the nature of the influence of other constituent components in the application.



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Chemical Resistance

Tests were carried out in accordance to ASTM D543 standard.

Organic Acids	
Lactic Acid 10%	Resistant*
Oleic Acid – sat.	Resistant
Citric Acid 25%	Resistant*
Vinegar sat.	Resistant*
Inorganic Bases	
Sodium Hydroxide 30%	Resistant
Potassium Hydroxide 50%	Resistant
Ammonia Solution 18%	Resistant
Salts Solution	
Sodium Chloride sat.	Resistant
Water Types	
Tap Water	Resistant
Chlorinated Water	Resistant
Dead Sea Water	Resistant
Distilled Water	Resistant
Solvents	
White Spirit	Resistant
Xylene	Resistant
Acetone	Resistant
Fuels	
Brake Fluid	Resistant
Diesel	Resistant
Kerosene	Resistant
Inorganic Acids	
Sulphuric Acid 25%	Resistant
Phosphoric Acid 20%	Resistant*
Hydrochloric Acid 36%	Resistant*
Nitric Acid 10%	Resistant*
UV-Resistant	Resistant*

- * Discoloration may occur without affecting the physical properties of the product.

Storage

12 months when stored properly in unopened container in dry conditions at temperature between 10 - 25°C.

Cleaning

All tools shall be cleaned immediately after application using Envirocon -Solvent. Hardened materials must be cleaned mechanically.

Packaging

Ecohard CT30 is available in 17L packs.

Cautions

Health and safety

Ecohard CT30 should not come in contact with skin or eyes. Goggles, gloves and breathing filters apparatus based on activated charcoal should be used. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

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