



Technical Data Sheet

Ecohard CT 70 Solvent Free Coal Tar Epoxy Coating

Description

Ecohard CT70 is a two-component Solvent free 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 CT70 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:	1.45±0.05
Color:	Black
Impact resistance: BS 3900-E3	Passed
Pot life:	40 min @ 25°C
Re-coat able time:	6 hours @ 35°C
Full cure @ 25°C:	After 7days
Recommended film thickness-DFT	150 –200 microns
Temperature of application from	+5°C – +40°C

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 EPOXY MORTAR.

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 CT70 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 @200 micron per coat depending on surface porosity.

Two coats should be applied to achieve the recommended film thickness.

Notes:

- The area where **Ecohard CT70** 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 CT70** must not be applied over other coatings but can be applied on top of itself within the recoat able times. (6– 24 hours @35°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.



Technical Data Sheet

Ecohard CT 70 Solvent Free Coal Tar Epoxy Coating

Chemical Resistance

Tests were carried out in accordance to ASTM D543 standard.

Organic Acids	
Raw Sewage	Resistant
Sodium Hydroxide 25%	Resistant
Ammonia Solution 15%	Resistant
Sodium Chloride sat.	Resistant
Tap Water	Resistant
Chlorinated Water	Resistant
Sea Water	Resistant
Brake Fluid	Resistant
Diesel	Resistant
Kerosene	Resistant
Sulphuric Acid 10%	Resistant
Phosphoric Acid 10%	Good
Nitric Acid 10%	Good

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 CT70 is available in 25L/KIT.

Cautions

Health and safety

Ecohard CT70 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.

E n v i r o c o n C o n s t r u c t i o n P r o d u c t s L L C



Envirocon Construction products L.L.C.

Abu Dhabi U.A.E.

P.O.Box :28577

Tel:+971 2 5503473

Fax:+971 2 5503474

www.enviroconcp.com

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.