



Technical Data Sheet

Ecohard CT100 Solvent Free Coal Tar Epoxy Coating

Description

Ecohard CT100 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.

Ecohard CT100 is suitable for use on concrete and steel surfaces.

Applications

Ecohard CT100 provides chemical and abrasion resistance to prevent corrosion of concrete surfaces.

Typical applications include.

- Seawater tanks, channels, and intakes.
- Manhole linings.
- Sewage and effluent plants.
- Chemical processing areas.
- Building foundations waterproofing.
- Jetties, piers, and docks.

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:	1.20±0.05
Color:	Black
Pot life:	90 mins @ 25°C
Re-coat able time@25°C:	10 -12 hours
Full cure @ 25°C :	After 7days
Recommended film thickness-WFT	150 - 250 microns
Temperature of application from	+5°C – +35°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 **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 CT100 can be applied by brush or roller. 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.

For hot climate application, the following guidelines must be adopted as a prudent working regime:

- The unmixed materials should be stored in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- The mixing and placing equipment should be kept cool; shade protection should be arranged if necessary. It is especially important to keep cool the equipment surfaces which will come into direct contact with the material itself.
- Application in the middle of the day should be avoided and must not be carried out under direct sunlight.
- For hand application, it should be ensured that sufficient operatives are available to complete the application within the pot life of the material.

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 CT100 Solvent Free Coal Tar Epoxy Coating

Coverage

Approximately 5m²/L/200mic coat.

Notes:

- The area where **Ecohard CT100** 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 precautions must be taken to ensure the full cure of the material.
- Ecohard CT100** must not be applied over other coatings but can be applied on top of itself within the recoat able times. (10 – 12 hours @25°C).

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	
Tab 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*

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

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.

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 CT100 is available in 17L packs.

Cleaning

All tools should be cleaned immediately after application using solvents. Hardened materials must be cleaned mechanically.

Storage

Ecohard CT100 has a shelf life of 12months if stored at temperatures between 5°C and 35°C.

If these conditions are not met, Envirocon technical department should be contacted for advice.

Cautions

Health and safety

Ecohard CT100 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.

Spillages

Spillages should be absorbed by sand then to be transferred to suitable containers. Disposal of these spillages and the empty packages must be done according to local regulations.



Technical Data Sheet

Ecohard CT100 Solvent Free Coal Tar Epoxy Coating



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.