

# Talrakote® CT

Coal tar epoxy based high performance protective coating for  
concrete and steel substrates



The Construction Alchemists

## Description

Talrakote® CT is a two component coal tar pitch epoxy based protective coating containing fillers and special solvents to provide suitable application viscosity.

## Features & Benefits

- Provides high chemical resistance to concrete surfaces and corrosion resistance to steel surfaces
- High build film - Provides abrasion resistance
- Resistant to sea water and sewage
- Can be applied by brush or spray
- Resistant to wet heat up to 60°C
- Provides protection to concrete against sulphate attack

## Primary Application

Talrakote®CT is suitable for concrete and steel surfaces exposed to sea water. Provides protection to concrete against sulphate attack and hence suitable for sewage treatment plants. Also can be used as protective coating to the concrete and steel members submerged under saline water and soil. Suitable for industrial effluent treatment plants. Also suitable for marine structural members to avoid growth of barnacles and protect against sulphate reducing bacterial growth.

## Technical Properties

Specific gravity	1.45 to 1.55
Pot Life @ 30°C	100 minutes
Recommended Dry film thickness (DFT)	350 microns
Recommended Wet film thickness(WFT)	530 microns
Number of coats recommended	1 - 3 (depending on application conditions and method)
Touch Dry @ 30°C	150 minutes
Over coating time	20 hours
Full cure @ 30°C	7 days
Chemical Resistance	To most of the dilute mineral acid, alkalis, organic solvents, biochemicals and industrial effluents.

## Design Criteria

Talrakote® CT is designed to be an anti-corrosive protective coating that is ideal for total/partial/intermittent submerged structures such as piles, pontoons, jetties, crest gates etc. It shall be applied in two coats to achieve a DFT of 350 microns with a WFT of 530 microns.

## Specification Clauses

### Corrosion, chemical and abrasion resistant

The chemical and abrasion resistant coating shall be Talrakote® CT, a high build, two component pitch epoxy based protective coating with a dry film thickness of 350 microns.

## Application Instructions

### Surface Preparation

#### Concrete

It should be ensured that the concrete surface shall be of at least 28 days old. The surface shall be free from laitance, loose particles and previous coatings if any. These may be well removed by wire brushing, acid etching or any other suitable means. Blow holes and other defects shall be filled with Talrak range of repair mortars.

#### Steel

Any surface adherents, bond breaking substances such as rust, mill-scales and other impurities should be removed from the substrate by sand blasting or acid etching. After acid etching the surface shall be thoroughly cleaned with plenty of water to remove all traces of water and dried, followed by immediate application of Talrakote®CT.

### Mixing

Both the base and hardener components supplied shall be first mixed in their containers separately. Then the entire contents of hardener tin shall be poured into base container and mixed using a resin stirrer fitted to a slow speed drilling machine, till a homogeneous mix is obtained.

### Application

The temperature during application of Talrakote® CT is critical. In very hot or very cold conditions lower application thickness is advised to avoid solvent entrapment.

**Primer coat:** The primer coat shall be prepared by mixing one part of thinner to four parts of Talrakote® CT by volume and applying the prepared primer on the cleaned surface.

**Top coat:** The subsequent coats shall be applied without dilution in two coats with a brush or roller or sprayer, to obtain a WFT of 530microns. The relative humidity during application shall not exceed 85%.

### Cleaning

The tools used for application shall be cleaned immediately using Talrasol GP followed by fresh water cleaning. The tools shall be wiped dry after cleaning.

## Estimating Packaging

Talrakote® CT is supplied in 18 liter combo packs.  
Talrasol GP is supplied in 5 and 20 liter cans.

## Coverage

**Theoretical coverage** : 1.80 - 1.90 m<sup>2</sup>/ liter for 530 microns WFT (350 microns DFT). Practical coverage may vary depending on substrate condition and application method.

## Storage

Talrakote® CT has a shelf life of 6 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

## Precautions

### Health & Safety Instructions

Use respiratory mask to prevent inhalation of vapours. Wear suitable protective gears such as barrier creams, overalls, goggles, dust mask and gloves. Make sure the area where the product is applied is ventilated adequately. The product is flammable, hence do not bring in contact of fire. Do not smoke while application on this product. Static discharges should be taken care. In case of fire, blanket flames with foam, CO<sub>2</sub> or dry chemicals.

## Flash points

Talrakote® CT Base: 36° C  
Talrakote® CT Hardener: 26° C  
Talrasol GP: 33° C

## Fire

Talrakote® CT and Talrasol GP are flammable. Do not smoke or use near naked flame.



**Talrak Construction Chemicals Pvt. Ltd.**

An ISO 9001:2015 Certified Company

### Works:

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### Important note :

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Ref : TCC/TDS/PCI I - R2