DURACOTE CTE 400

Coaltar epoxy resin based protective coating for steel and concrete surfaces.

Primary applications

Provides protection to concrete and metal structures against corrosion from aggressive environments. Suitable for tanks above ground or in totally submerged conditions such as pipelines. Particularly useful in sewage works, effluent plants and dock and harbour installations.

Features & Benefits

* Excellent resistance to all types of water
* Easily applied by brush or spray
* Provides long term corrosion protection
* No priming necessary in most cases
* Chemical and abrasion resistant
* Economic and versatile product

Description

DURACOTE CTE 400 is based on the solvent free coaltar epoxy resins specially formulated to provide a durable coating suitable for application to both vertical and horizontal surfaces.

Supplied as a two - component system comprising a special blend of pitch epoxy resins and amine hardeners.

Technical support

Condura provides technical advisory service on request, supported by a team of specialists in the field.

Technical Properties

Colour	:	Black / Brown
Solids by volume @ 25°C	:	90%
Potlife	:	45mins@30ºC
Time between coats	:	4hrs@30ºC, 2hrs@45ºC
Curing efficiency	:	95%(as per BS 7542)
Full cure	:	4days@35ºC
Tack free time	:	2hrs@35ºC
Specific gravity	:	1.52(mixed material)
Adhesion bond strength	:	1.5N/mm²

Chemical resistance

DURACOTE CTE 400 has been tested for the resistance a comprehensive range of various chemicals and types of water, commonly encountered in individual locations.
Tests were performed by constant immersion for 3 months at 30^{0}C in the selected chemical solution.

The fully cured coat is resistant to the attack of the below.

Water	Sea water
Effluent water	Ground water
Sewage water	Distilled water
Atmosphere conditions	Exhaust and sewage gases
Salt solutions	Many organic solvents

Diluted mineral acids & alkalis

Vegetable and mineral oils & fats

Barnacles and organic growths

However at elevated temperatures or where mixtures of chemicals are involved then the effects may be different than those found in laboratory tests described above. Condura local office shall be contacted for any clarifications.

Specification clauses

Protective surface coating

The coating shall be DURACOTE CTE 400 is a chemically resistant prepacked, two part solvent free, coaltar epoxy coating with a maximum of 100% volume solids. The total dry film thickness shall not be less than 400 microns and shall be capable of resistant to a range of industrial chemicals and all types of water. The cured film shall be tough and abrasion resistant. It shall be applied on the dry concrete or steel surfaces.

Application instructions

Surface Preparation

Surface to be coated must be structurally sound, dry and free from loose material. All surface contamination must be removed. Grease and oil should be grit blasted or water jetted. Deeper penetration must be removed by mechanical means. Any laitence must be removed from concrete surface by etching with the DURA KLEENS then washed off and dried. New concrete should be allowed to cure for atleast 28 days prior to priming. Steel surfaces should be shot blasted thoroughly.

It is essential that DURACOTE CTE 400 is applied to sound and clean dry substrates in order to achieve the maximum adhesion between the coating and substrate.

Mixing

Before mixing, the contents of each can should be thoroughly stirred to disperse any settlement which may have taken place during storage.

DURACOTE CTE 400

The entire contents of the smaller hardener can should be poured into the base container and the materials thoroughly mixed for atleast 3 minutes. Mechanical mixing using a slow speed (300 - 500 rpm) flame proof or air driven drill fitted with a mixing paddle is recommended.

Priming

Concrete Surfaces
priming is not required on properly prepared concrete surfaces.
Metal Surfaces
If any rust formation, eliminate it and apply primer coating on the treated metal surfaces.

Coating

The mixed DURACOTE CTE 400 shall be applied to the dry, prepared substrate making sure a continuous film is achieved using a standard paint brush, good quality lambswool roller or spray equipment. The optimum dry film thickness of 400 microns is achieved in two coats.

Cleaning

Tools and used equipment should be cleaned with Cleaning solution immdiately after use.

Temperature limitations

Minimum application temperature : 10ºC

At temperatures below 10^0C and above 45 ^{0}C, please contact your local Condura representative.

Packaging

DURACOTE CTE 400 - 4 Litres pack

DURAPRIME EP - 1 & 4 Litres pack

Coverage

DURACOTE CTE 400

4 Litres pack coverages approximately 25 m^2 per coat at the DFT of 200 microns. However, practical coverage depends on the nature and porosity of the substrate and application conditions.

DURAPRIME EP

1 Litres pack of DURAPRIME EP will cover 5m^2

Storage

12 months shelf life if stored in unopened containers below 35°C.

Health and Safety

Some people are sensitive to epoxy resin and coal tar products and may develop dermatitis on skin contact. Gloves and barrier creams should be used when handling cleaning SOLs and DURACOTE CTE 400. If contact with the skin occurs, use soap and copious amounts of water. Solvent shall not be used. Direct contact with the eyes will cause irritation and may cause serious damage if left untreated. Any eye contamination should be washed thoroughly with plenty of water and immediate medical treatment sought. The use of goggles when mixing is recommended. Smoking to be avoided.

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