



## CLASSIC EPO<sup>TM</sup> CTE

Two component solvent free coal tar epoxy resin coating system

### Product:

**Classic Epo CTE** is a two component, high build, coal tar epoxy protective coating for steel and concrete giving 250 microns in single coat on wet-on-wet basis. The product has excellent water and chemical resistance properties which makes it particularly suitable for aggressive environments such as sewage treatment plants and sewage manholes.

### Product Features:

Typical applications include:

- Seawater tanks, channels and intakes.
- Manhole linings.
- Sewage and effluent plants.
- Chemical processing areas.
- Building foundations waterproofing.
- Jetties, piers and docks.
- *\*Not suitable for surfaces in contact with drinking water.*

### Advantages:

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

### Curing Schedule

Temperature	Touch Dry, hrs	Recoat, hrs		Full Cure, Days
		Min	Max	
10 °C (50 °F)	10	12	48	15
30 °C (86 °F)	4	8	30	7
50 °C (122 °F)	1	3	24	3

### Application Methodology

#### Surface Preparation

- Prepare the surface by mechanical grinding or other suitable method..
- Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air.
- In case of new concrete, ensure the concrete is at least 28 days old.
- Ensure the ambient temperature is not less than 10 °C and not more than 50 °C at the time of coating.

### Technical Properties:

Colour:	Black
Mixed density:	1.3 ± 0.05 g/cm <sup>3</sup>
Solids by weight:	100%
Pot life:	50-70min@25°C 25-35min@40°C
Tack free time:	3-4hr@25°C 1-2hr@40°C
Over-coating time:	6-12hr@25°C 4-8hr@40°C
Curing time@25°C:	1 day for foot traffic 7 days for full chemical cure
Water absorption ASTM D570	< 0.01%
Water permeability: DIN1048 2 bars @ 100 days	Nil
Salt spray test: BS1881/124 : 1988 Over 1000hr	Nil@ 250microns thickness
Bond strength BS1881, Part 207	> 2MPa
Impact resistance BS3900, Part E3	Passed
Service temperature:	-20 - 75°C
VOC	< 10 g/ltr

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## Material Preparation

Stir drums of each component of **Classic Epo CTE** thoroughly to a homogenous and uniform mix with a slow speed stirrer fitted with a mixing paddle.

Ensure that there is no entrapped air.

Then mix the entire component A and component B, which are pre-weighed.

Place the Spiral blade at the bottom of the container before starting the mixer. This will help avoiding inducting air into the mass. Slowly move the stirrer head up to the surface while stirring. Do not remove the blade while still it is spinning. This procedure is continued for 5 minutes up and down to have a homogenous mixing.

After stirring, wait for 5 minutes in order to let entrapped air escape.

Stir again gently with a hand stirrer to ensure uniformity before application.

## Application of Material

Apply **Classic Epo CTE** direct to metal or prime surface with **Classic Epo Prime**. Allow minimum 4 hrs for primer to touch dry.

Apply first coat of **Classic Epo CTE** on the prepared surface by brush / roller / spray.

Allow it to touch dry for 4 hrs.

If required, apply second coat of **Classic Epo CTE** as above as per the technical data.

In case of airless spray, use standard equipment having tip size of 0.48 – 0.88 mm and tip pressure 110-160 kg/cm<sup>2</sup>.

## Cleaning Tools:

All tools should be cleaned immediately after application using DPC-solvent. Hardened materials must be cleaned mechanically.

## Packaging :

**Classic Epo CTE** is available in 5 kg packs (3.8 litre).

## Coverage :

5 kg pack will cover 15 - 16 m<sup>2</sup>/coat to give dry film thickness of 250 microns.

## Storage :

**Classic Epo CTE** has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 35°C.

If these conditions are exceeded, YASH Technical Department should be contacted for advise.

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