

# The Advanced Material

## The Significant Differences...

### PRODUCT DATA SHEET

Rev. 1/04.05

## PLC 88 CTE AMINE CURE COAL TAR EPOXY

#### DESCRIPTION

**PLC 88 CTE** is a two components high solids amine cured coal tar epoxy coating suitable for steel and concrete structures in chemical exposure and immersion service. **PLC 88 CTE** is economical and reliable for protection of immersed and underground structures.

#### RECOMMENDED USES

**PLC 88 CTE** is recommended for protection of steel and concrete structures subject to severe chemical attack. Sewage treatment plants, waste water treatment plant, pulp and paper mills, chemical plants, electroplating plants where strong and corrosive chemicals are employed. It is also highly recommended for off-shore and marine environment applications like jetties, splash zones and submarine pipelines.

#### LIMITATIONS

**PLC 88 CTE** is not recommended for immersion in aromatic or ketone solvents and also strong oxidising acids.

#### ADVANTAGES

- Excellent protection for submerged and underground structures.
- Economical – the cheapest yet effective protective coating
- Excellent chemical resistance – excellent resistance to both acidic and alkaline substances.
- Excellent abrasion resistance.
- Easy application – simple mixing and application procedures.

#### CHEMICAL RESISTANCE GUIDE

Exposure	Immersion	Splash & Spillage	Fumes
Acids	Very good	Excellent	Excellent
Alkali	Excellent	Excellent	Excellent
Solvents	Fair	Very Good	Very Good
Salt water	Excellent	Excellent	Excellent
Water	Excellent	Excellent	Excellent

#### PHYSICAL DATA

Volume Solids	: 70 ± 2 %
No. of Components	: Two
Mixing Ratio	: 1 part A to 1 part B by volume
Recommended Thickness/coat	: 200 microns DFT
Theoretical Coverage	: 3.37 m <sup>2</sup> /litre @ 200 microns DFT
No. of coats recommended	: Two
Drying Time	: Between coats - 12 hours Full cure - 7 days
Pot life	: 2 hours (varies with temperature)
Temperature resistance (dry)	: Continuous 93°C Non-continuous 150°C

#### APPLICATION INSTRUCTIONS

##### SURFACE PREPARATION :

**Concrete :** Concrete must have a minimum strength of 20N/mm<sup>2</sup> and surfaces to be coated shall be thoroughly cleaned to ensure that it is free from oil, grease and other surface contaminants. New concrete shall be allowed to cure for at least 14 days before application of coatings is allowed. Old and dirty concrete surfaces especially floors shall be prepared by blasting or grinding to remove the highly contaminated layer. Cracks, holes, cavities or irregularities shall be patched or filled with SUREFIX 100, SUREFIX 160 or SUREFIX 250 according to the size.

**Steel :** The best surface preparation method for steel surfaces is by abrasive blasting. **PLC 88 CTE** performs well over commercial blast surfaces with 25 to 50 microns surface profile.

**MIXING :** Mix component A and component B separately with power stirrer then pour content of component B into component A and mix thoroughly. Do not mix materials than the quantity to be consumed within the pot life.

**APPLICATION :** **PLC 88 CTE** can be applied by using brush, roller or spraying equipment but the uniform thickness and high build properties of the coating are best achieved by spray applications.

**SPRAYING :** Conventional or airless spray equipment is recommended. For airless spray, standard equipment with minimum 28:1 pump ratio, 500 to 700 kPa inbound pressure and 0.43 to 0.53 mm fluid tip is recommended. Apply in heavy wet coats overlapping each pass by 50%. stripe coat edges, welds and seams.

**RECOATING :** For most purposes, two coats are recommended. Apply the final coat according to the recommended recoating schedule. To ensure maximum adhesion strength between coats, the second coat shall be applied soon as possible after the minimum recoating time of 4 hours.

**DRYING :** The drying time will be lengthened by insufficient ventilation. To ensure proper drying, always apply coating at recommended thickness.

**CLEANING :** Clean all application tools with **PLC Cleaner #2** immediately after use.



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