

Technical Data Sheet TDS-796-01811



PRODUCT DESCRIPTION

The CTech-LLC[®] NECTM is a two-component novolac epoxy coating designed to provide protection to concrete and steel structures in aggressive chemical conditions. NECTM requires only on site mixing to produce an easily applied chemically resistant finish which can be installed as a stand-alone coating.

ADVANTAGES

- Two-component, solvent-free, novolac epoxy resin.
- Very good chemical resistance.
- High build coating.
- Easily applied by brush, roller or spray.

PHYSICAL and MECHANICAL PROPERTIES	
Volume solids	>98%
Mixed density at 25°C	1.3g/cm ³
Pot life at 25°C	30 minutes
Recoat Interval at 25°C	16 hours
Initial cure at 25°C	24 hours
Final cure at 25°C	7 hours
Abrasion resistance ASTM D4060 (CS10 Wheel, 1000g, 1000 cycles	55 mg
Compressive strength 14 days ASTM C579	> 75N/mm²
Flexural strength 14 days ASTM C580	>55N/mm²
Tensile strength 14 days ASTM C638-2001	>30N/mm²
Pull off strength ASTM D4541	>2.5N/mm²
Shore D Hardness ASTM D2240	D/79/1

TYPICAL USES

The material is particularly suitable in production and storage areas requiring high chemical and mechanical protection, particularly areas exposed to contact with aggressive chemical agents such as alkalis, acids and hydrocarbons.

Some application examples are:



- purification tanks
- storage tanks
- discharge tanks
- silos
- bund areas
- and most other liquid containment areas.

INSTALLATION PROCEDURE

This section outlines the general procedure of providing chemical protection to concrete and steel structural elements by using CTech-LLC[®] NEC[™] novolac epoxy coating.

SURFACE PREPRATION

The substrate shall be clean, dry and free from dust, loose mill scale, loose rust, oil and any other condition preventing good adhesion.

MIXING

NECTM novolac epoxy coating is supplied in two pre-weighed components, resin (Component A) and hardener (Component B). Add the entire contents of the Component A to the Component B container and mixed until a uniform streak free colour is achieved. It is recommended that mechanical mixing be employed using a Jiffy mixer on a slow speed electric drill.

APPLICATION

NEC[™] novolac epoxy coating Can be applied using good quality rollers or short haired brushes or by airless spray.



STORAGE & SHELF LIFE

- Store the material out of direct sunlight and protect from extremes of temperature and do not exceed 35°C
- Shelf life is 12 months when kept at recommended storage conditions.

CAUTION

All components of epoxy systems may cause skin irritation and sensitization. Use of chemical resistant gloves is recommended.

Avoid breathing vapors and dust. Get medical attention if you are breathing with difficulty.

resin products can cause strong eye irritation. Avoiding eye contact and using safety goggles is necessary.

CTech-LLC®

CYTEC's Composite Technology technical@ctech-llc.com info@ctech-llc.com www.CTech-LLC.com Before using any CTech-LLC® product, the user must review the most recent version of the product's technical data sheet, material safety data sheet and other applicable documents, available at www.ctech-llc.com.

WARANTY:

IMPORTANT NOTE:

CTech-LLC® warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within one month of the 'date of purchase. CTech-LLC® shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory. The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before utilizing.

Page 2 of 2 |NEC[™]

Technical Data Sheet (TDS)