

Technical Data Sheet
TDS-296-01913

ERSTMCR

Epoxy Resin Saturant for Chemical Resistant Applications



Building
&
Transportation



Oil, Gas
&
Industrial



Offshore
&
Onshore



Water
&
Wastewater



PRODUCT DESCRIPTION

The CTech-LLC[®] Epoxy Resin Saturant (**ERSTMCR**) is epoxy matrix materials for saturating composite fibers and bonding applications. As a two part epoxy, ERSTMCR epoxy resin system designed to exceed the standard epoxy system in applications where the FRP composite will come in contact with aggressive acids and reagents.

ADVANTAGES

- The reactivity can be adapted by mixing the hardener.
- Glass transition temperatures up to 104.5°C can be achieved dependent on curing conditions.
- Good impregnation due to optimized mixed viscosity for wet lay-up.
- ERSTMCR epoxy resin is easy to use and can be known as an eco-friendly product.
- Curing of ERSTMCR epoxy resin is very quick and convenient.
- Ideal product for chemically resistant composite repair system.

TYPICAL USES

The ERSTMCR epoxy resin is designed to thoroughly wet out the fiber forming a composite matrix. ERSTMCR is especially suited to the hand lay-up process and can be used in the general industrial where acid resistance is needed.

INSTALLATION PROCEDURE

For pipeline retrofitting with FRP

- Prep substrate according to NACE / SSPC spec.

- Measure fabric around pipe to ensure proper length.
- Mechanically mix together both primer components until uniform.
- Apply primer to prepared substrate via brush or spreader.
- Mix both Wet-Out components for two minutes.
- Apply Wet-Out to fabric via spreader or impregnator ensuring complete wet out of fabric.
- Apply saturated fabric to wet primer ensuring a consistent, smooth wrap free of voids.
- Allow system to completely cure.
- If exposed to sunlight, top coat the wrap with a light stable top coat.

STORAGE & SHELF LIFE

Shelf life is One year from ship date. ERSTMCR must be stored in its original packaging. Lid of the container should be kept closed. Moisture can decrease shelf life of epoxy resins The residual material needs to be used up as soon as possible.

PHYSICAL PROPERTIES

Chemical Base	Epoxy resin
Maximum Operating Temperature	185°F (84.5°C)
Working Time (Dependent on Temperature)	40 Minutes @ Ambient
Glass Transition	385°F (196°C)*
Set Time	1 Hour
Chemical Resistance	Gasoline, Mek, Acetone, Toluene, Ethyl Alcohol and other hydrocarbons
Shelf Life	One year from ship date
Application Conditions	Above 13°C up to 49°C
Cure Time	24-72 Hours

* In accordance with the standard ISO 11357-2

CAUTION

All components of FRP composite 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

IMPORTANT NOTE:

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:

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.