



**Unconventional Solutions, Inc.**  
Partnering with Your Industry to Repair - Protect - Upgrade

# Leading Edge



**FEBRUARY 2024**

## How to Repair and Prevent Galvanic Corrosion in a Chiller

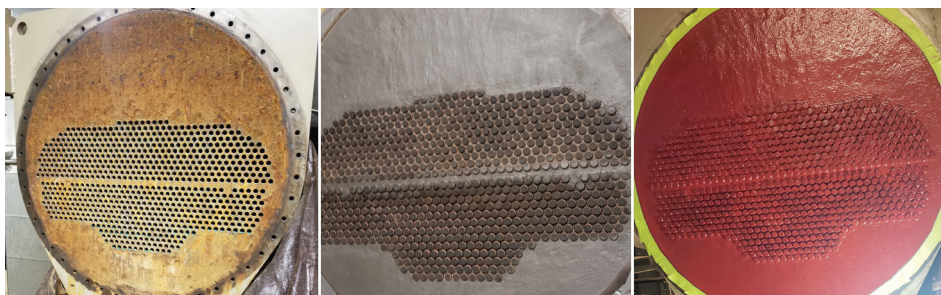
*With the assistance of Unconventional Solutions, discover how to improve, maintain, and repair galvanic corrosion on your chillers.*



**Galvanic corrosion** (dissimilar-metal corrosion) is an electrochemical process in which one metal corrodes preferentially, when in electrical contact with a different type of metal, and both metals are immersed in an electrolyte such as water. Chillers are prone to this type of corrosion, especially where the tubes meet up with the end plates. Unconventional Solutions offers several solutions to repair this type of corrosion on a chiller.

**1. The first thing that needs to be done** is to cork all of the tubes to prevent blast media and debris from entering the tubes. Once the tubes are corked, abrasive blast the area to NACE 2 specifications, to a 2 1/2 to 4 mil anchor pattern. This will ensure the best adhesion of the protective coating layer. 80% of coating failures are due to poor surface prep. To make sure that your corroded chiller repair lasts make sure to follow all surface prep instructions on your tech data sheet.

Learn more of the steps using Resimac products to repair a corroded chiller. 



**Duomar SAR:**  
**Advanced High-Performance Rebuilding Ceramic Putty**

Versatile easy-to-use rebuilding putty with excellent abrasion

and chemical resistance. This product is heavily filled with aluminum oxide and can be built up to an inch in thickness or more. Typical applications are for rebuilding of pump casings, slurry tanks, weld seams or anywhere requiring the restoration of metal components.



**Highland International 325R Zinc - Advanced 2-Component Zinc-Rich Epoxy Primer**

Boasting an impressive 84% zinc dust content in its dry film,

this primer sets a new standard in metal protection. The innovative formulation of Highland International 325R Zinc is tailored to ensure its overspray dries to a powder within 10-20 feet from the point of application.



## Dates to Remember

**February 15**

**SEMPPE Meeting** at Whiskey's on the Water (Wyandotte, MI)

**February 15**

**2024 DTE Energy Supplier Engagement Event** (Detroit, MI)

**February 26-28**

**Indiana Corrosion Society Underground Corrosion Short Course** (Fort Wayne, IN)

**March 3**

**AMPP Annual Conference + Expo** (New Orleans, LA)

**March 21**

**SEMPPE Presentation on The Inflation Reduction Act** (Bakers of Milford, MI)



**US Coatings EpoxyGrip 2000: High-Performance**

**Epoxy Mastic Coating** Designed to excel in highly corrosive environments, EpoxyGrip 2000 offers a robust solution for a variety of industrial applications. This product is not just a coating; it's an armor for your structures, providing long-lasting defense against the elements.



**HOTSHOT & Same Day Local Deliveries available for orders placed by 12 p.m. EASTERN TIME**

MI HQ - 28056 Oakland Oaks Ct., Wixom, MI 48393 **248-735-7000**

OH 937-704-4220 | IN 219-733-0543 | [office@USIgroups.com](mailto:office@USIgroups.com) [www.USIGroups.com](http://www.USIGroups.com)

