



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

September 2023

Leading Edge

CASE STUDY: Corroded Chiller Refurbishment



Our client had existing chillers that had never been coated before. Upon inspection they noticed a lot of galvanic corrosion on the tube face sheet and lid of the chiller.


SUBSTRATE

Carbon steel and copper tube sheets

PRODUCTS USED

Duromar SAR Standard Abrasion Ceramic
Duromar EAC Ceramic Lining

UNCONVENTIONAL SOLUTION

The Unconventional Solutions crew came in and set up tents to contain the end of the chillers for dust control. We corked the tube sheets to prevent blast media from entering the tubes. We sandblasted the chiller ends to remove corrosion and achieve the proper profile. After sandblasting we vacuumed the area. We then applied two separate coats of **Duromar SAR Standard Abrasion Ceramic** to any pitted or damaged areas. We then applied two separate coats of **Duromar EAC Ceramic Lining**. One coat in red and an overcoat in grey. 



Duromar SAR Standard Abrasion Resistance (Ceramic)

SAR is a 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.

www.usigroups.com/product/duromar-sar-standard-abrasion-resistance-ceramic/



Duromar EAC – Easily Applied Ceramic

DUROMAR EAC is a brushable and versatile maintenance material, which has excellent resistance to both acids and caustics, as well as having excellent abrasion resistance. It is primarily used to resurface any component requiring both abrasion and chemical resistance such as tanks, heat exchangers, valve or pump internals.

COLORS AVAILABLE: Red / Gray

www.usigroups.com/product/duromar-eac-easily-applied-ceramic/



Get FREE Expert Flooring Evaluation--On Us!



Utility Company's Warehouse Aisle Restoration

This warehouse floor was reaching the end of its life cycle and the client was looking for a way to refurbish it instead of tearing it up and pouring a new floor. This is the main warehouse that runs 24/7 for the utility company, so they are not able to close it down.

Since Unconventional Solutions, Inc. has had success with several other projects they selected our expertise and quality of service to do this job. They knew that if they waited a couple more years, they would have to demolish the floor and pour a new one. They were looking for a repair option to avoid the expensive replacement costs.

Does your facility flooring work hard to help your bottom line?
Schedule a no-charge evaluation by Unconventional Solution's High Performance Flooring experts to learn more.

Keeping You in the Know Since 2002



USI Dates to Remember

September 21

SEMPPEs Ford Field Stadium Meeting (Detroit, MI)

October 2-4

AMPP Eastern Conference (Savannah, GA)

October 19

SEMPPEs Meeting at Bakers of Milford (Milford, MI)

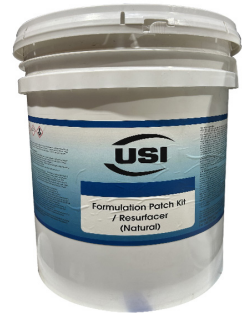


DON'T FORGET September & October is Outage Season and a chance to check your HVAC systems!

PRODUCT HIGHLIGHT

USI Epoxy Mortar Regular Formulation Patch Kit

USI Epoxy Mortar Regular Formulation Repair Kit is a three component 100% solids epoxy mortar designed for applications where excellent wear characteristics and strength are required.



RECOMMENDED FOR:

- Heavy Traffic Areas
- Forklift Traffic Areas
- Steel Equipment Production Areas
- EXCELLENT IMPACT AND ABRASION RESISTANCE

AVAILABLE:

- 2 gal and 5 gal
- Colors: Red and Grey

<https://www.usigroups.com/product/usi-epoxy-mortar-patch-kit/>

Call us @ 248.735.7000 for a FREE demonstration.



NOW AVAILABLE PURCHASE ORDER (PO) for online orders

Call us at 248.735.7000 or email Customer Service at cs@usigroups.com to set up an online account.

Contact the USI team today! We have an Unconventional Solution for YOU!

The USI Team offers:

Technical Support • Training • Troubleshooting
HOTSHOT & Same Day Local Deliveries available for orders placed by 12 p.m. EASTERN TIME

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Fast, Friendly Service & Shipping

