

DO YOU WANT TO IMPROVE PUMP AND ENERGY EFFICIENCY AS MUCH AS 20%? The USI Team has a Ceramic Enhance Hydrophobic Coating Solution for you!



Cavitation, Erosion/Corrosion ZOOMED IN



Cavitation, Erosion/Corrosion



AFTER: Blasting, Metal Filler, 2 Top Coats

The images to the left are of a Horizontal Split Case (HSC) Pump that needed refurbishment to improve its pump and energy efficiency. First this pump was disassembled. Then aggressively sandblasted to SSPC-SP-5 NACE 1 White Metal Blast Cleaning. USI Metal Repair/Rebuild was then used to fill in any holes or pitting. Next, two top coats of USI Ceramic Enhance Hydrophobic Coating was applied. After full chemical cure according to the Top Coats Technical Data Sheet, the HSC Pump was reassembled and put into use. The final result for this pump had a Monthly Savings of \$1,851. An Annual Savings of \$22,207, and a 5 Year Savings of \$111,036 (financial numbers according to study done by MCWA - Rochester, NY).

WHY is it Important to Ceramic Coat New or Existing Pumps/Casings?

According to US Dept of Energy Office of Industrial Technology (Pump Life Cycle Costs: A Guide to LCC Analysis for Pumping Systems., Dec. 2000) Pumping Systems account for nearly 20% of the world's electrical energy demand. Any technology which produces even moderate gains in pump performance and pumping efficiency can lead to substantial savings in terms of worldwide energy use, costs and the associated greenhouse gas emissions.

USI Metal Repair/Rebuild FEATURES:

- Solvent Free Epoxy Technology
- Simple Mixing Ratio 3:1 by Volume
- Enhanced Wear/Abrasion Resistance
- Excellent Chemical/Thermal Resistance
- High Build Capability 1" without slump
- No Shrinkage
- Superior Adhesion to Metallic Surfaces

WORKS GREAT ON: Pump Housings, Worn Impellers, Internal Pipe Surfaces, Separator Housings, Bow Thruster Tunnels, Rudders, A-Frames & P-Brackets, Tube Sheets, End Plates, Water Boxes, Cyclones, Centrifuges, Process Vessels.

USI Ceramic Enhance Hydrophobic Coating FEATURES:

- Solvent Free Epoxy Technology
- High Gloss Finish = Improved Flow Rates
- Enhanced Wear/Abrasion Resistance
- Excellent Chemical/Thermal Resistance
- Apply by Brush up to 60 mils per coat
- No Shrinkage
- Superior Adhesion to Metallic Surfaces
- Excellent Resistance to Cavitation

WORKS GREAT ON: Pump Housings, Worn Impellers, Internal Pipe Surfaces, A-Frames & P-Brackets, Tube Sheets, End Plates, Water Boxes, Rudders, Tanks, Centrifuges, Heat Exchangers, Chillers.

Contact USI TODAY 248-735-7000 Your Midwest/Great Lakes Stocking Distributor & Training Experts And Set up a Site Visit to receive a FREE Audit. Let the USI Team find the BEST Solution for your Unique Issues.

February 2020 UPCOMING EVENTS

- Tuesday/Wednesday February 4 & 5 - AWWA, Lansing, MI
- Sunday thru Friday February 9 thru 14 - NACE CIP Level 1 Class, Wixom, MI
- Sunday thru Friday February 16 thru 21 - NACE CIP Level 2 Class, Wixom, MI
- Thursday February 20 - SEMPPEES Meeting, Dearborn, MI
- Tuesday thru Thursday February 25 thru 27 Purdue UCSC, West Lafayette, IN **USI SPONSORED!**

March 2020 UPCOMING EVENTS

- Monday March 9 - WPACCC Meeting, Coraopolis, PA
- Tuesday March 10 - West Virginia CCCC Meeting, WV
- Wednesday March 11 - Detroit NACE Meeting, Plymouth, MI
- Monday March 16 - KGA Golf Outing, KY
- Tuesday/Wednesday March 17/18 - KGA Expo, Lexington, KY
- Thursday/Friday March 19/20 - OGA Tech Seminar & Affiliate Display, Lewis Center, OH
- Thursday March 19 - SEMPPEES Meeting, MI
- Monday thru Wednesday March 16 thru 18 - WBENC Summit & Salute, Nashville, TN

IS A 6 DAY NACE CIP TRAINING TOO LONG FOR YOU?

Contact the USI Team and ask about how we can customize a 1, 2 or 3 day Coatings Training specific to your companies needs. No matter what your needs are, USI has a Solution for YOU!

CONTRACTORS CORNER

**WORRIED ABOUT OSHA'S
#1 SAFETY ISSUE?
-TRIPS, SLIPS & FALLS-**

NO PROBLEM!

The USI Team has you covered.



This NFL Stadium had a Trip, Slip & Fall issue in their main atrium entrance that called for the USI Team to customize a solution using a high strength epoxy grout with a custom blend of aggregate.

→ The USI Team offers:

Technical Support • Training • Troubleshooting

HOTSHOT Same Day Local Deliveries for Emergencies and Next Day Deliveries for orders placed by 2:00PM EASTERN TIME

CONTACT THE USI TEAM TODAY! We have an Unconventional Solution for YOU!

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USI GROUPS
Experts in Composite Repair & Protective Coatings

FAST, FRIENDLY DELIVERY - RESULTS, NOT EXCUSES!

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