

WHEN IT'S TIME TO PREVENT OR REPAIR CORROSION ON YOUR CUI PIPES, OR IT'S TIME TO REPLACE THE TRADITIONAL INSULATION ON YOUR CUI PIPES, THE USI TEAM HAS YOU COVERED.



PREVENT OR REPLACE

When it's time to replace your traditional insulation or start fresh with CUI protection ask the USI Team about Highland 350-INS thermal insulating paint. Making the switch from traditional insulation to Highland 350-INS thermal insulating coating is easier than you may think. In addition to the insulating benefits, 350-INS adds another layer of protection from CUI. Traditional insulation is easily damaged, and can trap water against the surface. Trapped water creates an extremely harsh environment which will degrade steel very quickly. Using Highland 350-INS thermal insulating paint in conjunction with a Highland high temperature primer is the solution to this problem. Highland high temperature primers create a rugged barrier from the elements, while the Highland 350-INS thermal insulating paint provides durability that cannot be achieved with traditional insulation. Finally, 350-INS is multi-functional: it insulates, it lowers surface temperatures, and it seals the surface off from corrosion.



The USI Team has many more products than what is mentioned here in this newsletter to help with CUI for Prevention, Repair or Replacement.

Corrosion Under Insulation (CUI) is any type of corrosion that occurs due to a moisture buildup on the external surface of insulated equipment. When the CUI is not detected soon enough, the outcome can lead to the shutdown of a process unit or an entire facility, and in some cases, the outcome might be a safety incident. *CUI is the most expensive problem in corrosion history* due to their highly corrosive conditions and the limited visual access by thermal jackets. The main CUI processes are: #1 Galvanic - generally results from wet insulation with an electrolyte or salt, which allows a current to flow between different metals (e.g., the insulated metal surface and the outer jacket). The extent and severity of the attack on the less noble metal depends on the difference in potential between the two metals and their relative areas. #2 Alkaline / Acidic - results from moisture and an alkali or acid in certain fibrous or granular insulations. Where service temperatures exceed 121°C (250°F), most of the water evaporates, condenses at the edge of the insulation, and then dissolves the alkaline or acidic chemicals there, which results in corroding the jacket. #3 Chloride - occurs on 300-series austenitic stainless steel surfaces when the insulation contains leachable chlorides and moisture at temperatures above 60°C (140°F). A concentration of chloride ions usually results from the evaporation of rain, water used in fighting fires, or process water.

PREVENT OR REPAIR

To prevent or repair CUI pipe, ask the USI Team about Cortec's VpCI®-619.




It is a water-based corrosion inhibitor designed to protect against corrosion under insulation (CUI) in high temperature applications up to 1100 °F (600 °C). VpCI®-619 can extend the life of piping and insulation in refining, petrochemical, and marine environments thus minimizing replacement material and labor costs. The product is non-corrosive and non-flammable, so it can be applied and used safely in widely varying conditions. To discourage CUI, VpCI®-619 should be sprayed on the inside of insulation before it is wrapped around new pipes or other metal surfaces that need to be insulated. VpCI®-619 may also be applied to existing pipes when corrosion is found during maintenance. If the integrity of the pipe is not compromised, the pipe may be cleaned and wrapped in new insulation treated with VpCI®-619 to provide future protection.



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 on how to Repair and Protect all your Pipe needs with the BEST Products & Service from the USI Team.

July 2019 UPCOMING EVENTS

- Thursday July 4 - INDEPENDENCE DAY 
- Tuesday thru Thursday July 9 thru 11 - Edison Electric Institute (EEI) in Nashville, TN
- Friday July 26 - DTE SAFETY DAYS in Monroe, MI
- Friday July 26 - SEMPPEES Golf Outing in Milford, MI
- Monday July 29 - OGA Golf Outing in Westerville, OH

August 2019 UPCOMING EVENTS

- Tuesday thru Thursday August 13 thru 15 - Midwest Energy Association (MEA) in Rochester, MN
- Saturday August 31 - Labor Day 30K Festival of Races, Run/Bike 30K, Run/Walk 10K & 6K (supports non-profits)

The July 26th SEMPPEES Golf Outing in Milford, MI is a great networking event for Power Plant personnel, HVAC or Engineers and Suppliers. Contact USI HQ 248-735-7000 to Sponsor your foursome or go to www.semppes.org

USI IS PROUD TO BE AN AUTHORIZED DISTRIBUTOR of **epigen** products.

Performance Resins & Composite Systems

Epigen 301, Epoxy Backing Grout, is designed to be used effectively in hot or cold climates, and is able to be blended with graded aggregate without appreciable loss of strength. Addition of graded aggregate is recommended when installation depth is extreme or to control excessive exotherm under hot conditions. Suitable for use on a variety of surfaces including steel, wood, and concrete.



PRODUCT USED:
Epigen 301



PRODUCT USED:
Epigen 301

→ The USI Team offers:

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