

## DON'T LET YOUR BOILER BECOME A \$47 MILLION LIABILITY

A boiler at St. Louis box company exploded like a missile killing four people. The failure was caused by corrosion of a 6-inch (15-centimeter) ring that was part of the tank. The explosion that occurred was equivalent to about 350 pounds (160 kilograms) of TNT. [\(view full article\)](#)

We often think of corrosion as just rust, but according to AMPP, (formerly NACE) it cost the USA \$1.1 trillion a year. In this case the rust damaged lead to an explosion taking four precious lives. Don't let this be your 30 seconds of fame.

USI partners with Cortec® VpCI® products to bring you several very easy and safe ways you can protect your boilers, chillers and heat exchangers during a season of layup or routine maintenance checks.

### Cortec® Has a Revolutionary Approach to Boiler Preservation

Boilers are at high risk from corrosion when taken down for system maintenance. If left unchecked, corrosion will cause both integrity issues and lower system efficiency from build-up clogging the system. Older mitigation methods, including desiccants, nitrogen blanketing, dry air systems, and hydrazine have a host of issues and are not always effective. Cortec® products are easy to use and maintain, using less labor and shortening down-time.

### Cortec® Can make your system start-up easier

Commercial, industrial, and institutional facilities around the world were suddenly forced to shutter operations as a response to the efforts to slow the spread of COVID-19. Cortec's boiler layup products are a simple and effective solution for boiler operators who want to look forward to an easy startup. [Learn more from Cortec®](#)



**Boiler Gecko™** is VpCI® packaged in an airpowered spray can for use in the dry layup of small boilers and steam components.



**Boiler Lizard®** contains VpCI® powder in a polyvinyl alcohol (PVA) water-soluble bag. For use in the dry layup of medium sized boilers.



**Boiler Dragon™** is VpCI® waterborne multimetal fogging fluid designed for use in the dry layup of large boilers and steam components.



**Boiler Egg™** is designed to scavenge oxygen and passivate metal during the initial filling of make-up water after seasonal or long-term dry layup of boilers. The Boiler Egg™ comes in an easy-to-handle pouch that is readily dissolved upon water contact.

HOT WATER BOILER SYSTEM			
Component	Size	Dry Layup	Wet-Dry Layup
Boiler Waterside	<1,000 Gallon (<3.8 m³) Boiler Volume	Boiler Gecko®	Boiler Igarna™ or Boiler Platypus™
	>1,000 Gallon (>3.8 m³) Boiler Volume	Boiler Lizard® and Boiler Egg™	
Boiler Fireside	<1,000 Gallon (<3.8 m³) Boiler Volume	Boiler Gecko®	N/A
	>1,000 Gallon (>3.8 m³) Boiler Volume	Boiler Dragon™	N/A
STEAM GENERATION SYSTEM			
Component	Size	Dry Layup Drained First Preserved Afterwards	Wet-Dry Layup Preserved First Full/Drained/Partially Drained After
Boiler Waterside	Small	Boiler Gecko™	Boiler Igarna™
	Medium	Boiler Lizard®	Boiler Igarna™
	Large	Boiler Dragon™	Boiler Igarna™
Boiler Fireside	Small	Boiler Gecko™	N/A
	Medium	Boiler Dragon™	N/A
	Large	Boiler Dragon™	N/A
Deserator (Feedwater Tank)	Small	Boiler Gecko™	Boiler Igarna™
	Medium	Boiler Dragon™	Boiler Igarna™
	Large	Boiler Dragon™	Boiler Igarna™
Economizer	Small	Boiler Gecko™	Boiler Igarna™
	Medium	Boiler Dragon™	Boiler Igarna™
Steam Line	Small	Boiler Gecko™	N/A
	Medium	Boiler Dragon™	N/A
	Large	Boiler Dragon™	N/A
Steam Side Heat Exchangers	Small	Boiler Gecko™	N/A
	Medium	Boiler Dragon™	N/A
	Large	Boiler Dragon™	N/A
Condensate Return	Small	Boiler Gecko™	Boiler Igarna™
	Medium	Boiler Dragon™	Boiler Igarna™
	Large	Boiler Dragon™	Boiler Igarna™

COOLING WATER SYSTEM			
Component	Size	Dry Layup Drained First Preserved Afterwards	Wet-Dry Layup Preserved First Drained/Partially Drained After
Full Cooling Water System	Small - Medium	Boiler Gecko™	Cooling Loop Gator®
	Large	Boiler Dragon™	VpCI®-649
Individual Chiller or Heat Exchanger	Small - Medium	Cooling Tower Frog®	N/A
	Large	Boiler Gecko™/Boiler Dragon™	N/A
CLOSED LOOP SYSTEM			
Component	Size	Dry Layup Drained First Preserved Afterwards	Wet-Dry Layup Preserved First Drained/Partially Drained After
Full Cooling Water System	Small - Medium	Boiler Gecko™	Closed Loop Gator®
	Large	Boiler Dragon™	VpCI®-649
Individual Chiller or Heat Exchanger	Small - Medium	Cooling Tower Frog®	N/A
	Large	Boiler Gecko™/Boiler Dragon™	N/A

**Repair, Protect & Upgrade TODAY! >>> Contact USI at 248-735-7000 or office@USIgroups.com <<< USI has a variety of Vapor phase Corrosion Inhibitor products to help you AVOID a \$47 Million Liability.**

## PLAN AHEAD NOW IN 2021

### Plan Ahead

June 11, 2021 - USI's 4th Annual Client Appreciation Golf Event at our Ohio Location - 937.704.4220

June 18, 2021 - USI's 17th Annual Client Appreciation Golf Event at our Michigan Location - 248.735.7000

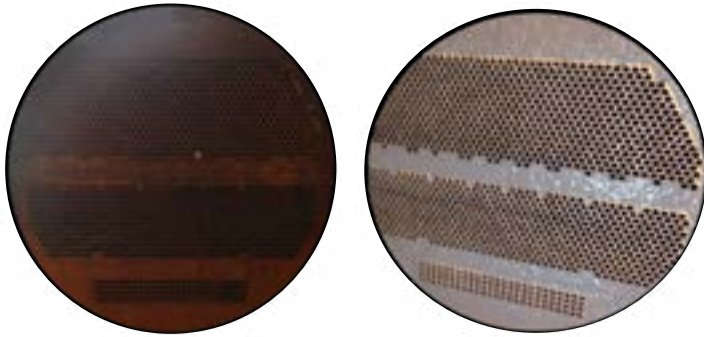
**Is it time for maintenance on your Heat Exchangers or Chillers?**

**Noticing galvanic corrosion and metal loss?**

**Looking for better efficiency?**

**Don't want to replace?**

**The USI Team has a solution for you!**



Heat Exchangers, Chillers and Condensers are constructed of bundles of copper tubes held together by tube plates, all of which are contained in a solid metallic cylinder. If these units are left unattended, the corrosion would completely destroy the tube plate as seen in the photo. USI has the required coatings that can withstand the aggressive operating environment. These coatings will give you the repair, protection and upgrade that you are looking for.

## USI'S FEATURED PRODUCT

resimac Ltd.



**RESIMETAL  
203 SUPERFLOW  
CERAMIC REPAIR  
FLUID**

**EROSION  
CORROSION  
&  
ABRASION  
RESISTANT**

Resimetal 203 Super Flow Ceramic Repair Fluid is a two component solvent free epoxy repair fluid. It is designed to improve flow rates and pump efficiency while giving superior erosion, corrosion and abrasion resistance. Used in conjunction with any of the following: Resimetal 101 Metal Repair Paste, Resimetal 201 Ceramic Repair Paste or Resimetal 202 Ceramic Repair Fluid - will yield the repair, protection and upgrade that is desired.

#### TYPICAL APPLICATIONS:

- Heat Exchangers
- End Covers
- Condensers
- Pump Casings
- Propellers
- Pipes
- Jet Tubes
- A-frames
- Chillers
- Water Boxes
- Centrifuges
- Pump Impellers
- Rudders
- Valves
- Kort Nozzles
- P-brackets

### The USI Team offers:

Technical Support • Training • Troubleshooting  
HOTSHOT & Same Day Local Deliveries available for orders placed by 2:00PM EASTERN TIME

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

USI Michigan HQ  
office@USIgroups.com • 248-735-7000

Technical Support Specialist - MI HQ - Paul  
ts@USIgroups.com • 248-924-3523

NW Indiana Branch  
nw-inoffice@USIgroups.com • 219-733-0543

SW Ohio Branch - Jason  
daywh@USIgroups.com • 937-704-4220

Account Manager - Rob  
Rob@USIgroups.com • 517-997-1655

Locke, NY Field Branch - Jerry  
Jerry@USIgroups.com • 315-497-1072 - cell 315-283-3906



FAST, FRIENDLY, SERVICE & SHIPPING

MI HQ 248-735-7000 | OH 937-704-4220 | IN 219-733-0541  
www.USIgroups.com

MI HQ - 28056 Oakland Oaks Ct., Wixom, MI 48393

