



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

# Leading Edge

## VpCI®-649 Solves the Irony of Corrosion During Hydrotesting

Hydrotesting of industrial pipes, valves, and other vessels presents an irony. While hydrotesting is done to ensure that no leaks are present and that the vessel will hold up under expected operating pressures, it also raises the risk of corrosion by introducing moisture to the system. The same water that proves the vessel is not compromised can be the very cause of corrosion that deteriorates the metal and leads to leakage over time. Cortec® provides an excellent answer with the **VpCI®-649 Series** for hydrotesting.

### Corrosion Protection for Hydrotesting


**VpCI®-649** is a unique concentrated liquid formulation that combines contact and Vapor phase Corrosion Inhibitors. These inhibitors form a molecular protective layer on metal surfaces below and above the water level. **VpCI®-649** protects both ferrous and non-ferrous metals, including copper, steel, galvanized steel, aluminum, and cast iron. **VpCI®-649** does not contain nitrites, phosphates, or chromates—a characteristic that helps minimize disposal concerns. It is also available in a molybdate-free version (**VpCI®-649 MF**) for use in regions with molybdate restrictions. **VpCI®-649 BD** contains an organic-dispersing agent, and **VpCI®-649 Winterized** provides protection against product-freezing during storage.

### Hydrotesting for Long-Term or Short-Term Corrosion Protection

When dosing **VpCI®-649**, users must decide how long they want corrosion protection to last and adjust concentration and dwell time accordingly. Options range from protecting the metal only



during hydrotesting to protecting the metal for up to two years after hydrotesting. Extended preservation is often desired when the metal component must either undergo a shipping or storage period before it will be put into use. In some cases, hydrotesting with **VpCI®-649** is done specifically for the purpose of mothballing. This is possible because of the film forming quality of **VpCI®-649**, which leaves behind a corrosion inhibiting layer on the metal surface and typically does not need to be removed before putting the vessel into service.

Contact USI Group to learn how to leverage this hydrotest product to fight corrosion | 248.735.7000 

## Wastewater Treatment Plant Concrete Stair Repair

This wastewater Treatment Plant wanted improve plant safety to mitigate the risk of trip, slip and fall issues. The steps were original from 1956 opening of plant and are over 66 years old.

The plant wanted to start having grade school kids do field trips to tour and it start with this project first.

**UNCONVENTIONAL SOLUTION:** We started by removing all the loose damaged concrete and listening for any hollow sounds in the concrete. We used a grinder and scuffed up the rest of the damaged areas. Then we used leaf blower to remove all the rough debris. Then we used the **Resichem 571 Concrete Mortar LW** to rebuild the side of the stairs.

Once the area was clean, we used **Resimac 576 Quartz Screed** primer activator and poured it into the primer base and stirred it with a drill motor until it was a uniform color. We primed two stairs at a time so we could move around the project with ease. Using a five-gallon bucket,

we mixed the **576 Quartz Screed Primer** with half of the aggregate, then we mixed the remaining aggregate with a big concrete mixer and the drill motor. We scraped around the edges and bottom until thoroughly mixed. Using a premeasured wood form, we used tape and release agent on the front of the stairs so it would not stick. Reminder: slant the stairs away from the structure so rain runs off smoothly and ice will not form with colder temperatures.

The client was excited about the appearance and is now repairing other stairs to prevent slip, trip and falls.

Read more of Unconventional Solutions's concrete solution to these stairs today: <https://bit.ly/3AzWyUt>



Keeping You in the Know Since 2002



## USI Dates to Remember

**June 9**

**USI Dayton-Cincinnati Golf Outing** (Miamisburg, OH)

**June 16**

**USI Wixom, MI Golf Outing** (Milford, MI)

### When a pipe leak shuts you down, how fast can you be back up and running?

A pipe leak can be a costly and sometimes dangerous problem. InduMar Products Inc. has been helping companies repair pipe and fitting leaks quickly and safely for 25 years. As leaders in the field of leak repair, we offer the products and services you need.

The **STOP IT® PIPE REPAIR SYSTEM** provides a method to restore product flow and profit flow in minutes, instead of the many hours required to cut out a pipe section, fabricate and install a new piece.

**Call us @ 248.735.7000 today to learn more about our STOP IT® product lines and how we can help you.**

<https://www.usigroups.com/product-tag/indumar/>



## PRODUCT HIGHLIGHT

### VpCI®-126 Blue Series

#### iCortec® VpCI®-126

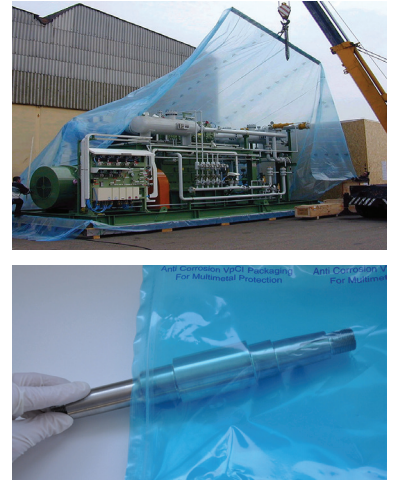
**Blue** is heat-sealable and can be used with all types of manual or automated heat-seal packaging equipment. The material protects small or large parts, and is available in a variety of standard and customized forms including bags, sheeting-reinforced film, Zip-Lock and Autobags, gusseted liners, bags-on-a-roll, perforated sheeting,

coil covers, shrink film, and tubing. This state-of-the-art film construction provides multi-metal protection for parts, equipment, and vehicles for up to three years, even in aggressive outdoor conditions.

Metal parts packaged in VpCI-126 EM UV Film receive continuous protection against salt air and humid environments, moisture, aggressive industrial atmospheres, and dissimilar metal corrosion.

**Call us @ 248.735.7000 for a FREE demonstration.**

<https://www.usigroups.com/product/vpci-126-blue-series/>



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### The USI Team offers:

Technical Support • Training • Troubleshooting  
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