



THE SMARTPAD SYSTEM

A PATENT-PENDING, COGBILL CONSTRUCTION PRODUCT

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UNPARALLELED PIPE CORROSION PROTECTION!

Cogbill's RedLineIPS SmartPad System, **patent-pending**, is a composite (FRP) solution that offers revolutionary external corrosion protection to above-ground industrial piping systems at the pipe support points. This problem is often referred to as "Corrosion Under Pipe Support" (CUPS). The system also allows installation, removal, and reinstallation in mere minutes, thus allowing quick, inexpensive visual pipe corrosion inspection.

THE PROBLEM:

A piping system typically rests on a supporting structure. It often moves and vibrates due to rotating equipment, fluid flow, temperature changes, etc. Over time, the resulting friction forces erode the pipe's protective paint coating, thus exposing the pipe's surface to the elements and then causing corrosion. The restricted airflow at these support regions molecules to be retained for longer periods, further promoting corrosion. Metal-to-metal contact is yet another major cause of corrosion. All these factors eventually lead to pipe failure.



THE SOLUTION!

The RedLineIPS FRP SmartPad System is a revolutionary solution that effectively addresses the CUPS issue. This all-composite system eliminates metal-to-metal contact, providing a protective barrier for pipes. The unique shape of the SmartPad saddles a pipe from beneath, safeguarding its paint coating from friction and vibration while allowing better airflow. With a closed-cell gasket boasting a NEMA-4 rating, moisture is prevented from becoming trapped between the pad and the pipe. The system's efficient design enables quick installation, removal, and reinstallation, all in mere minutes, without welding or epoxy, and without requiring line shutdowns. This simplicity facilitates easy and cost-effective visual corrosion inspection, as opposed to expensive solutions such as ultrasound, radiography, and others. Experience the benefits of the RedLineIPS FRP SmartPad System for your piping needs.



SMARTPAD BENEFITS

- *ELIMINATES METAL-TO-METAL CONTACT*
- *EPOXY-LESS AND WELD-LESS*
- *ALLOWS PIPE VISUAL INSPECTION IN SECONDS*
- *WELDING PERMITS AND LINE SHUTDOWNS NOT REQUIRED*
- *INSTALLS ON LIVE LINES*
- *INSTALLS AND REMOVES IN SECONDS*
- *100% INSTALL SUCCESS RATE*
- *REMOVABLE & REUSABLE: COST-EFFECTIVE AND GREEN SOLUTION*
- *CORROSIVE CHEMICAL-RESISTANT OPTIONS AVAILABLE*
- *DAMPENS VIBRATION AND NOISE*
- *-60°F TO 400°F (-51C TO 204C) OPERATING TEMPERATURES*
- *LONG-LIFE MATERIAL, RATED FOR 20-30 YEARS AND LONGER*

HOW IT WORKS

1. The SmartPads are 100% fiber-reinforced plastic (FRP) wear pads with special design modifications.
2. A closed-cell Hydroseal gasket is preinstalled on the inner surface of every SmartPad, capable of offering a NEMA-4 watertight seal when compressed.
3. The pads saddle a pipe from underneath at the pipe support point, isolating it from its supporting structure and protecting its paint coating from wear.
4. Composite SmartBands are looped around each SmartPad into the recessed grooves, and composite buckles are attached.
5. SmartTool is then used to tighten the SmartBands, thus compressing the Hydroseal gasket. This creates a NEMA-4 watertight seal, eliminating moisture ingress between pad and pipe. This also prevents the pads from ever falling off or moving out of position.
6. The installation process takes only seconds.
7. The SmartPads can be removed, in seconds, by cutting the SmartBands off, to visually inspect the pipe for external corrosion.
8. The pads can also be reinstalled, again in seconds, using the original SmartPad and gasket, but using new SmartBands.



FRP SMARTPAD:

Crafted from layers of continuous strand mat laminated with top-quality vinyl ester resin. They are UV stable and wear-resistant, and are load tested in extreme temperatures and conditions, making them suitable for harsh environments such as coastal regions, offshore platforms, LNG, etc.

HYDROSEAL GASKET:

A closed-cell elastomer designed to create a waterproof, NEMA-4-rated, watertight seal between a pipe and the SmartPad. Conforming to the pipe's surface when compressed, it eliminates moisture traps. It also makes it suitable to protect pipes with pits and hills due to previous corrosion treatment, and also renders pipe treatment prior to installation unnecessary. Different material options are available for various corrosive chemicals and extreme temperature applications.

SMARTBANDS:

Heavy-duty, non-corrosive continuous-strand fiber-reinforced polymer straps secure the SmartPads to pipes with high strength and high retention force. Smooth inner surface and low-profile buckles make them safe for coated surfaces, and are also suitable for subsea use.

SMARTTOOL:

Specifically designed for tightening the SmartBands, they ensure a secure and long-lasting fit. Available in manual, mechanical, and pneumatic variants, its ergonomic design easily applies high tension forces to create a watertight seal between pipe and pad. It also includes a built-in clipping mechanism to cut off excess banding.



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