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Solution for CUPS Corrosion: The RedLineIPS SmartPad System - Cogbill Construction of Texas U.S.A



The **RedLineIPS SmartPad System**, from Cogbill Construction of Texas U.S.A., is a patent-pending Fiber-Reinforced Plastic (FRP) solution specifically engineered to address Corrosion Under Pipe Supports (CUPS) at coastal and offshore facilities in the petrochemical and gas sectors. Designed for above-ground piping systems, the SmartPad System offers a revolutionary approach to external corrosion protection at pipe support points. The system combines tried-and-true materials and components, a saddle-shaped design, and an innovative watertight sealing mechanism to provide durable, efficient, and cost-effective protection for industrial pipes.

Unlike traditional solutions, the RedLineIPS SmartPad System eliminates the need for fixing methods such as epoxy or welding, allowing installation, removal, and reinstallation in minutes. This capability facilitates rapid visual corrosion inspections, reducing reliance on expensive methods such as radiography and ultrasound, and thus reducing the overall cost of ownership.

The SmartPad System: An Alternative Solution to CUPS

The **RedLineIPS SmartPad System** is a potential breakthrough in external corrosion protection, offering the following key benefits:

- 1. Cost-Effective Maintenance:** SmartPads allow rapid visual inspections, reducing reliance on expensive and time-consuming methods like ultrasound or X-ray.
- 2. Moisture Barrier:** The integrated closed-cell Hydroseal gasket creates a NEMA-4-rated watertight seal when installed, preventing moisture accumulation.

3. Non-Metallic Construction: The FRP material eliminates metal-to-metal contact, preventing galvanic corrosion.

4. Quick Installation: The system can be installed, removed, and reinstalled in seconds without welding, epoxy, or line shutdowns.

5. Saddle-Shaped Design: This innovative shape evenly distributes stress, prevents point loading, and protects the pipe's coating.

Benefits of the SmartPad System

- Allows rapid visual inspections, reducing operational costs.
- Dampens vibrations and noise for improved system stability.
- Eliminates metal-to-metal contact, preventing galvanic corrosion.
- Long-lasting, UV-resistant materials.
- No epoxy or welding required.
- Protects a pipe's protective coating from wear.
- Reusable components promote sustainability and green initiatives.
- Suitable for extreme temperatures (-60°F to 400°F). convert to Centigrade.

Applications and Industry Adoption

The SmartPad System is suitable across industries, including:

- **Oil & Gas:** Offshore platforms, pipelines, and refineries.
- **Petrochemicals:** Chemical processing plants.
- **Power Generation:** High-pressure, high-temperature piping systems.
- **Water Treatment:** Corrosion protection for water and wastewater facilities.

Early adopters include major industry players such as Chevron, Formosa Plastics, and Nutrien - all at coastal facilities and offshore platforms at the Gulf of Mexico. They have successfully implemented the SmartPad System in challenging environments, achieving significant reductions in maintenance costs and improved pipeline longevity.

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