

Buried Casing Corrosion Protection in Texas, USA with ZERUST® Zerion™ Inhibitor Solutions

Location: Texas, USA | Date: May 2025 | Contractor: ZERUST® Integrity Solutions™ | Client: Confidential

Project Summary

ZERUST® Integrity Solutions™ was contracted to provide a tailored corrosion mitigation solution for a buried casing. The project required injecting corrosion inhibitor into the annular space through an existing vent pipe, ensuring effective internal protection of the casing environment.

Asset & Site Details

Asset ID: Pipe Casing
Casing Diameter: 16 inches (≈ 406 mm)
Pipeline Diameter: 12 inches (≈ 305 mm)
Length: 80 feet (≈ 24.4 meters)
Vent Pipes: Two 3-inch (Top and Bottom orientation) (≈ 76 mm)
Elevation Changes: Minimal
Weather During Application: 75°F (≈ 24°C), 75% humidity, cloudy



Injecting ZERUST® corrosion inhibitor solution into the annular space of the pipe casing.

Solution Implemented

Products Used

- ZERUST® Zerion™ FVS Corrosion Inhibitor Powder
- ZERUST® Zerion™ PGH-300 Gel Powder

Implementation Details

- Injected a corrosion inhibitor solution consisting of ZERUST® Zerion™ FVS Powder mixed with clean, potable water into the annular space.
- Added ZERUST® Zerion™ PGH-300 Gel Powder in-line using Eductor Injection Equipment for enhanced performance.
- Installed 3-inch expandable plugs in the goose neck vent pipe openings to seal the system post-injection.
- The customer chose not to install Corrosion Monitoring Equipment during this visit. ZERUST® Integrity Solutions™ recommends routine monitoring to ensure the continued presence of inhibitor solution and integrity of the asset.

Outcome

The application was completed successfully with minimal issues. The asset is now protected with a ZERUST® corrosion mitigation solution. Ongoing visual inspections and periodic testing are recommended to ensure continued protection and inhibitor presence within the annular space.

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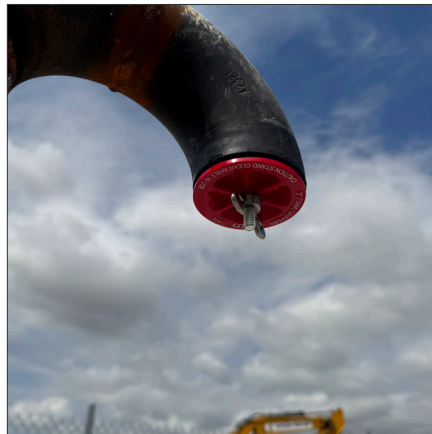


project case studies

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Project Photos



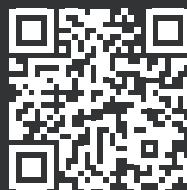
† DECLARATION

Corrosion protection claims are based on Northern Technologies International Corporation (NTIC) internal laboratory testing performed under controlled parameters on contaminate-free substrates. Real-world application corrosion protection duration on different substrates will vary and depends on factors such as, but not limited to, the application or use, environmental/ storage conditions, surface cleanliness, type of substrates, and coating thickness (where applicable). The use of the term "Up to" in reference to time is defined as any time duration from zero up to a specified time frame, but in no event beyond the specified time frame. The use of the term "for years" is based on NTIC's experience with its products but is in no way guaranteed. The use of the term "Up to" in reference to volume is defined as any volume from zero up to a specified volume but in no event beyond the specified volume of protection. It is the customer's/user's obligation to evaluate product performance, corrosion protection duration, safety, and suitability for intended use within the scope advised in the data sheet and to comply with all applicable laws and regulations.

LIMITED WARRANTY/DISCLAIMER Warranty is limited to the replacement of a product that fails to meet specifications. For full warranty and disclaimer information, visit www.zerust.com/warranty.

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Contact Us



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A product of:
Northern Technologies
International Corp
4201 Woodland Road
Circle Pines, MN 55014 USA
Toll-Free: +1 (800) 328-2433
www.ZerustIS.com

Supersedes: v4
Revised: 05/21/2025



With over 50 years of experience, ZERUST® Integrity Solutions™, a division of Northern Technologies International Corporation (NTIC), creates unique inhibitor-based corrosion prevention solutions to serve terminals, pipelines, exploration and production, equipment suppliers, transportation sectors, and more.

ZERUST® Integrity Solutions, ZERUST®/EXCOR®, and Natur-Tec® are sister companies under NTIC.

