

Corrosion Under Insulation Solution

Trenton's Temcoat™ 3000 primer and Wax-Tape® HT-3000 wrap was the recommended solution for a pipeline system in the Kingdom of Saudi Arabia.

A newly erected pipeline system required a coating insulation due to expected moisture condensation during depressurization of the lines. Multiple pipeline configurations were identified with 24" and 30" diameters. The immediate need for a pipeline corrosion protection solution required that it be applied onsite with minimal surface preparation and quickly. The pipelines had an assortment of valves, flanges and other fittings that would need to be protected as well.

The proposed solution was Trenton's Wax-Tape® anticorrosion wrap system. Trenton Wax-Tape® HT-3000 high-temperature wrap is a specially formulated wax-based wrap used for corrosion protection of metal pipe

and fixtures experiencing higher than normal temperatures. When used in combination with Trenton Temcoat™ 3000, this easy-to-apply wrap delivers highly effective and durable corrosion protection to bare or coated surfaces such as pipes, flanges, valves and other fittings, providing long-term protection.

Because the Trenton Wax-Tape® wrap system did not require a curing time, the contractor was able to install the specified heat insulation wool and cladding quickly and efficiently.

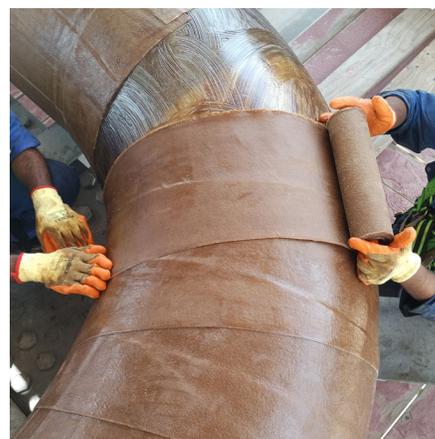
All designated pipelines and fittings were covered with this system. It was tested and received a positive review and the lines were put into service on a fast-track plan.

Typical Applications:

- High-temperature oil and gas production piping
- Gas pipeline compressor station discharge piping
- Refining and petrochemical process piping
- Beneath thermal insulation on piping
- Locations and environments with consistently high (> 110 °F / 44 °C) ambient temperatures



A 24" pipe valve was coated with the Temcoat™ 3000 primer and Wax-Tape® HT-3000 wrap system. The conformability of the wrap meant that it could be applied without a mastic, making the application process fast and enabling a rapid inspection.



A two person crew was sufficient to apply the Wax-Tape® HT-3000 wrap on the 24" pipe bend.



In tight quarters, the advantage of the Trenton Wax-Tape® wrap system over other solutions is the ease of surface preparation and application as compared to an abrasive blasting or a bulky wrapping machine.

Field Report: Corrosion Under Insulation

End Use:

Wax-Tape® HT-3000 wrap can be applied and will perform effectively at continuous operating temperatures of up to 230 °F (110 °C) and is designed for use in aboveground and belowground applications.

Features:

Ease of use:

- Quick and easy to apply, with minimal equipment requirements
- Can be applied to surfaces with minimal preparation (SSPC SP2 or ISO St2)
- Can be applied in high-moisture conditions
- Can be applied at “in-service” temperatures
- No cure time – ready for immediate application of insulation material
- Non-toxic – no Volatile Organic Components (VOCs)

Proven durability and performance of Trenton Wax-Tape Systems:

- Trenton Wax-Tape® anticorrosion wrap systems have over three decades of successful field performance
- May be used aboveground or belowground (UV resistant)
- Resistant to acid, salts, and other soil organics over a wide range of pH
- High dielectric strength
- Excellent resistance to cathodic disbondment



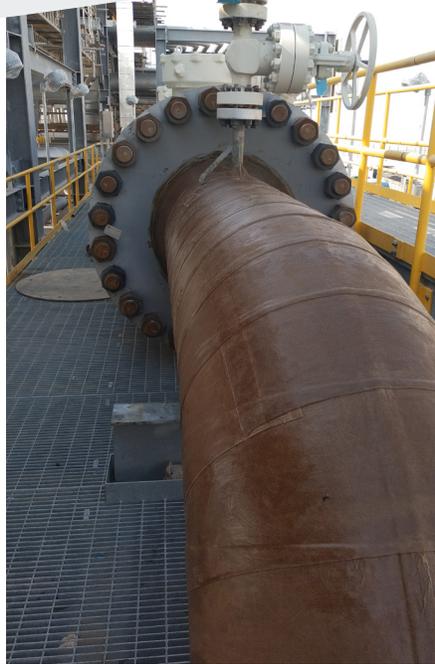
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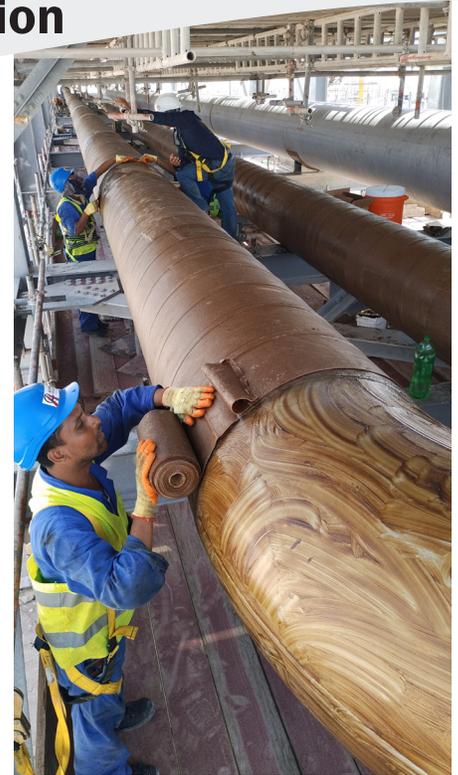
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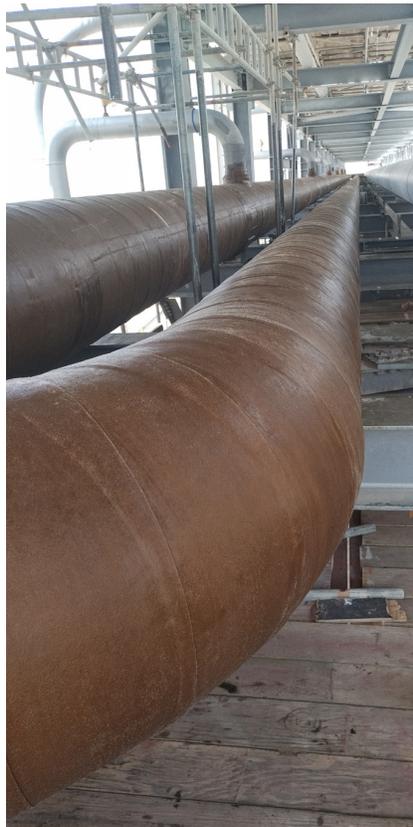
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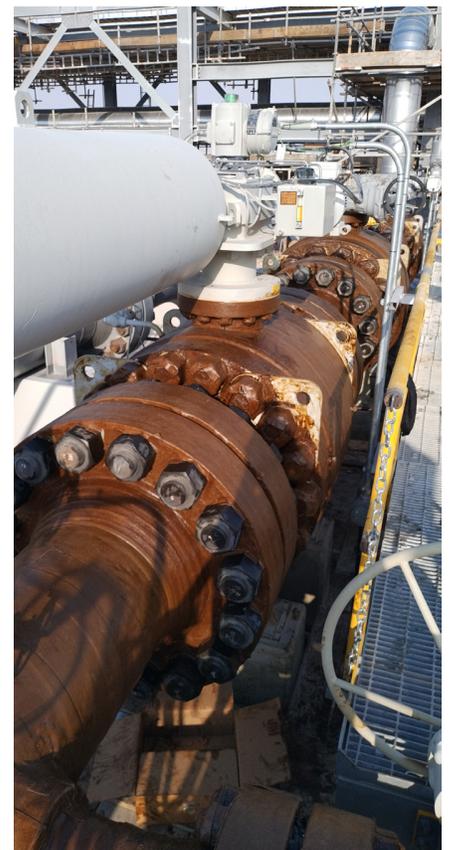
A 30" pipeline protected with Temcoat™ 3000 and Wax-Tape® HT-3000 wrap before the insulation was applied.



The spiral wrapping of Wax-Tape® HT-3000 wrap on a 30" pipeline proceeds quickly.



Temcoat™ 3000 and Wax-Tape® HT-3000 wrap was applied on a 24" and 30" pipeline followed by the installation of insulation material.



Temcoat™ 3000 and Wax-Tape® HT-3000 wrap provided protection of a motorized valve and flange on a 10" pipe.



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