



TRENTON

WAX-TAPE®

ANTICORROSION WRAP SYSTEMS

An effective, long-lasting anticorrosion system for the toughest environments.

Conforms to various shapes and structures, protecting assets where no other conventional materials can match.

Strong UV resistance properties making it suitable for outdoor use, lasting for over 20 years.

Suitable for all industries. (Refineries, Petrochemical, Storage Facilities, Utilities, Mining, Ports & Terminals, High-Tech, etc.)



Ease of Maintenance



TRENTON Wax-Tape® can be easily removed for maintenance work

A large diameter valves and flanges was wrapped with Wax-Tape in 1986.

In 1998, the Wax-Tape was removed for maintenance work on the valves. Some comments made by the inspection personnel:

"Because there was no corrosion, the valve/flange assembly was as easy to take apart as it was to put together"

"Even the threads on the bolts looked good."

Severe
Corrosion



DAY 0
Wax-Tape
Protection



DAY 610
No Corrosion
Evident



DAY 930
No Corrosion
Evident



Above The Ground

For pipelines, bridge spans, flanges, structural steelwork and irregular objects.

Excellent for use in areas where blasting or painting may be impractical.



Hard to reach places



Irregular Objects



Pipeline soil transitions



Cold and Condensing Lines



Highly corrosive environments



Steelworks



Coloring for ease of management

Below The Ground

Outstanding hydrophobic characteristics. Compatible with cathodic protection systems. Can be backfilled immediately.



Recoating



Wax-Tape with MC Outerwrap



Below ground pipeline can be backfilled immediately



Protection of large valve



Transition zone of large pipeline



Wax-Tape with Guard Wrap



Used in the water industry

Around The Storage Tank

Storage tank chime presents challenges as crevice corrosion is likely to occur..

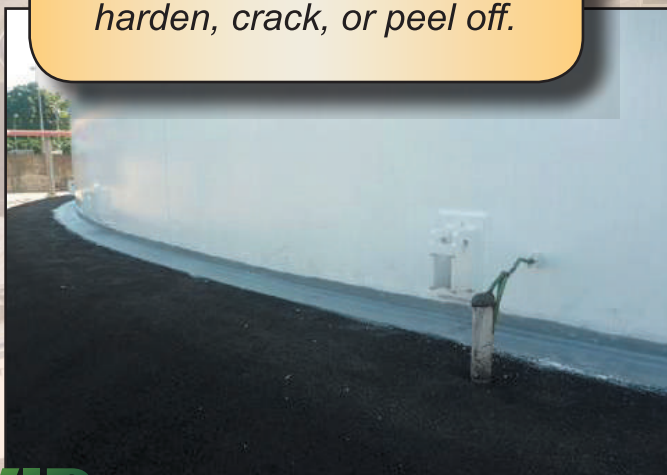
Settlement of the tanks and prolong UV exposure can cause coatings to crack and delaminate.



QUICK, EFFECTIVE & ECONOMICAL SOLUTION

1. Prepare the surface
2. Build a sloping profile where tank wall meets the base
3. Apply Wax-Tape® starting from the base up the vertical tank wall

** Wax-Tape protection forms a continuous, effective, and flexible coating that will not harden, crack, or peel off.*



TRENTON WAX-TAPE ADVANTAGE

TRENTON Wax-Tape® #1, #2, HT-3000 anticorrosion wraps are composed of special blends of microcrystalline waxes, plasticizers and corrosion inhibitors (with no fillers) saturated into a non-woven, non-stitch bonded synthetic fabric, forming a tape wrapper.

Wax-Tape #2 is a self-firming anticorrosion wrap that slowly firms up and provides protection against the elements.

Wax-Tape Primers are a key reason why the Trenton Wax-Tape Anticorrosion Wrap System is so effective in mitigating corrosion. It is a blend of microcrystalline waxes, plasticizers and corrosion inhibitors (with no fillers).



The primers penetrate surface rust in preparation for the application of Wax-Tapes, the field applicators only need to use a wire brush to prepare the surface. The primers thoroughly wet the surface of the pipe and require no specific surface profile or anchor pattern for proper adhesion.

Unique Characteristics:

1. Easily applied and highly conformable, applicable on pipelines, storage tanks, joints, bolts, flange, valves, welds, bends, supports, etc.
2. No blasting required, surface preparation of NACE/SSPC-SP2, ISO ST2 or WJ2.
3. Resistance to UV exposure, chemicals, salts and weathering.
4. Applicable to wet surface and suitable for extreme weather and working conditions.
5. Coating maintains flexibility, will not dry or harden resulting in cracks and delamination.
6. Non-toxic, non-carcinogenic.
7. Can be painted with water based paints after coating firms up.
8. Can be cut as desire with zero scrap, can be stored indoors indefinitely in original packaging.



Test Results

Salt Spray and
Ultraviolet Exposure Test

Chemical Resistance
ASTM G20
Vapor Phase

| Test | Result |
|---|-------------------------|
| Salt Spray (ASTM B117 - 1000 hours) | No visible effect |
| Ultraviolet Exposure (ASTM G53 - 1000 hours) | No material degradation |

Simple Application

1. Surface Preparation

Wire brush and scrape surface clean of loose rust, paint, dirt. (SSPC-SP2, ISO ST2, WJ2)



2. Apply Primer

Apply thin layer onto surface. No curing or drying time before Wax-Tape® application.



3. Apply Wax-Tape®

Apply Wax-Tape® in spiral fashion. Ensure adequate overlap and remove air pockets.



4. Inspection

Check:

- » Removal of all air pockets
- » Adequate overlap
- » Edges are firmly pressed down (*Sealing the edges*)



| Effect \ Reagent | Hydrochloric Acid, 5% | Nitric Acid, 10% | Sodium Chloride, 10% | Sodium Hydroxide, 10% | Lime Water Saturated |
|------------------|-----------------------|------------------|----------------------|-----------------------|----------------------|
| Blistering | NO | NO | NO | NO | NO |
| Chalking | NO | NO | NO | NO | NO |
| Discoloration | NO | NO | NO | NO | NO |
| Swelling | NO | NO | NO | NO | NO |
| Loss of Adhesion | NO | NO | NO | NO | NO |
| Delamination | NO | NO | NO | NO | NO |

A World of Applications

Storage tank
Annular Plate



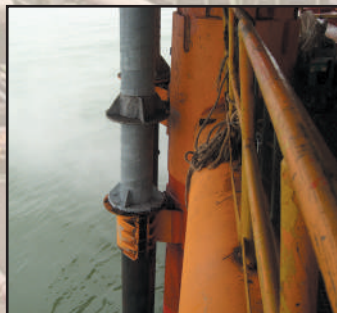
Pipelines



Insulated pipeline across bridge



Platform Risers



Bridges



Riveted joints



Recoating



Wax-Tape cut for inspection and repair



Transition Zone



Structural support



Motor casing



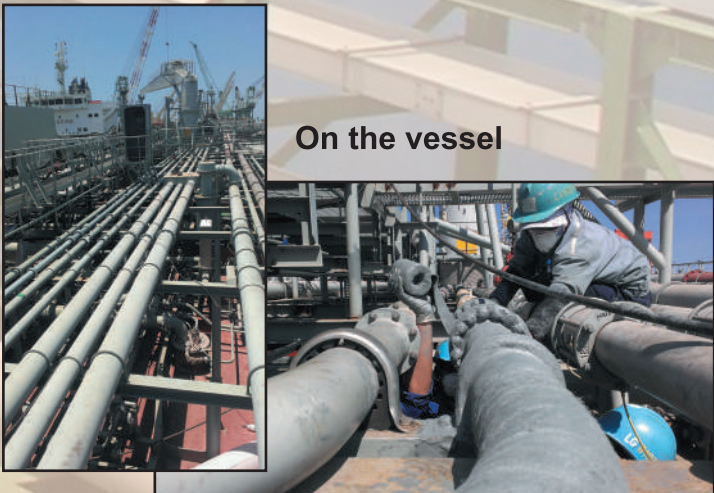
Sweating Lines



Marine park



On the vessel



TRENTON Effective and Long-Lasting Anticorrosion System



Trenton Wax-Tape® Anticorrosion Wraps provides long lasting protection from UV damage, weathering and road salt runoff. The inset photo shows Wax-Tape being applied in 1981.



In hard to reach locations where blasting is impractical and causes environmental issues, Trenton Wax-Tape® is frequently used as it is long lasting with no blasting needs.



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Trenton Wax-Tape® are very cost-effective, especially when the Total Cost and the designed life of the project is taken into consideration.