



polyguard

PIPELINE

WAX WRAP HT

Wax Wrap HT (high-temp) is a petroleum-based compound impregnated into a non-woven synthetic carrier that provides long lasting external corrosion protection for **Above-ground (60A) or Below-ground (60U)** metal substrates and infrastructure.

It easily conforms to irregular shaped profiles, sealing out moisture and can be applied over a wide range of temperatures and wet or dry surfaces with Superior Dielectric Strength to typical wax coating systems.



CORROSION PROTECTION OF:

PIPELINES, FITTINGS, STREET TEES, FLANGES, VALVES, BOLTS, VAULTS BRIDGE CROSSINGS, TUNNELS AND IRREGULAR SHAPES & SPACES

Wax Wrap HT has been formulated to provide best in class corrosion protection on steel pipelines, valves and fittings without harsh smells. It stays pliable and flexible while absorbing minimal movement and vibrations of the substrate.

Wax Wrap HT is VOC free, NON-Hazmat and shows zero cathodic disbondment. These **Polyguard products** can be applied where water is present making it ideal for tunnel and vault applications.

Wax Wrap HT system has the pliability and adhesion you are looking for, even in extreme ambient temperatures and stays pliable in cold-weather. Upon completed application, projects can be backfilled and/or brought back to service immediately.

Wax Wrap HT Systems are successfully used on midstream oil and gas pipeline transmission lines, on water and wastewater transmission lines, in oil and gas production facilities, and more.

Manufactured in the USA.

WAX WRAP HT

A 70 mil (1.8 mm), petroleum-based compound impregnated into a non-woven synthetic carrier that provides long-term corrosion prevention in high operating temps reaching 250°F (121°C)

USE:

For application on metal structures, infrastructure and pipelines needing corrosion protection.

PACKAGING:

SIZE	COVERAGE	OVERLAP
9"x18' rolls (6 Rolls/Case)	81 ft ² (7.5 m ²)	50% Overlap 40.5 ft ² (3.76 m ²)

**other widths, lengths available*

ADVANTAGES:

- ✓ SSPC-SP 2 only minimal surface prep required
- ✓ Chemical Resistance
- ✓ Not affected by water, salts, acids Odorless
- ✓ Superior in wet/humid environments
- ✓ No cure time, immediate backfill
- ✓ Nontoxic, no VOCs
- ✓ No Clay Fillers
- ✓ Easily conforms to irregular shaped surfaces
- ✓ Can be painted immediately, no wait time
- ✓ Meets and Complies with AWWA C217
- ✓ Standard, NACE SP0375-2024
- ✓ Ideal when transitioning from old coating

SPECIFICATIONS:

Color: Red

Thickness: 70 mils (1.8 mm)

Dielectric strength (ASTM D149): 305 v/mil (12 v/μm)

Water Vapor Permeability Rate (ASTM E96): 0.0024 perms (0.028 g/m²·24hrs)
40°F to 175°F (4°C to 79°C)

Application Temperature: 0°F to 250°F (-18°C to 121°C)

Operating Temperature: -50° to 260°F (-46°C to 127°C)

Drop Melt Point (ASTM D127): 260°F (127°C)

Flash Point (ASTM D92): 538°F (281°C)

Cathodic Disbondment Testing (ASTM G8): No Cathodic Disbondment

WAX WRAP HT PRIMER

Wax Wrap HT Primer is a formulation of petroleum based waxes, plasticizers, and moisture displacing corrosion inhibiting compounds. Wax Wrap HT Primer is a non-melting, primer designed to be used as a surface conditioner for above and below-ground applications with high ambient temperatures and hot surfaces. Wax Wrap HT will not dry out, harden, melt or crack.

USE:

As a moisture displacement, surface conditioner for corrosion prevention on metal surfaces prior to application of Polyguard Wax Wrap HT.

PACKAGING:

4 × 1 Gallon pails per case

SPECIFICATIONS:

Color: Brown

Coverage: 1 pail covers 100 ft² (9.3 m²)

Flash Point: 538°F (281°C)

Drop Melting Point: 300°F (149°C)

Service Temp: -40°F to 250°F (-40°C to 121°C)

Application Temp: 0°F+ (-18°C+)

ADVANTAGES:

- ✓ High operating temp formulation
- ✓ Easy to apply by hand or brush
- ✓ No curing time needed, no mixing required
- ✓ Environmentally safe, non toxic, no VOC's
- ✓ No clay fillers
- ✓ Excellent wetting properties
- ✓ No thinning in moist or humid environments
- ✓ Meets and Complies with AWWA C217-2023 Standard, NACE SP0375-2024

PROFILE PUTTY

Petroleum based, anticorrosive filling compound, that molds and smooths the contours of irregular shapes, fittings and surfaces. Fills voids for an even application of Polyguard Wax Wrap each time.

PACKAGING:

(1) 20 lb. (9 kg) block

Coverage: 462 in³ (7570 cm³)

SPECIFICATIONS:

Specific Gravity: 1.11 (ASTM D70)

Application Temp: 40°F to 200°F (4°C to 93°C)

Service Temp: <200°F (93°C)

Flash Point: 350°F (177°C)

Pour Point: 240°F (116°C)

ADVANTAGES:

- ✓ No Fillers
- ✓ Min. surface preparation required, SSPC-SP 2
- ✓ Creates smooth profile, fills voids
- ✓ No curing time, no pot life restrictions
- ✓ Environmentally safe, non toxic, no VOC's
Will not dry out in heavy clay soils



POLYGUARD WAX WRAP HT SYSTEM APPLICATION:

1

Surface Preparation*

- Perform minimal surface prep (SSPC-SP 2).
- Remove loose scale, rust, paint, and any foreign material.

2

Apply Polyguard Wax Wrap HT Primer (1 – 3 mils (25 – 76 µm))

- Apply by gloved hand or brush to all areas that will be wrapped.
- On wet, sweaty, cold, or rusty surfaces, firmly rub and press the primer to displace moisture and ensure adhesion.
- Extend the primer 3 inches (76mm) beyond the area where the wrap will be applied for visual inspection.

3

Fill voids if needed (Profile Putty)

- Apply Polyguard anti-corrosive Profile Putty by pressing it into contours, minor pits, and voids to create a more even surface.
- Make sure the putty is adhering well as you work it into place.

4

Apply Polyguard Wax Wrap HT

- Immediately wrap over the primer/putty.
- Start with a 100% overlap, then transition to a spiral wrap with at least a 1 inch (25 mm) overlap.
- (Some environments may require 50% overlap.)
- Press out all air pockets and smooth out the seams, especially on straight pipe.

5

Wrapping Irregular Shapes (flanges, fittings, tees, etc.)

- Leave slack in the wrap while applying it to ensure full coverage and allow it to contour to irregular shapes.
- After wrapping, smooth out all seams to ensure proper self-sealing
- Press and mold the wax-based tape so it conforms fully to the surface and does not bridge over irregular areas.

**Surface Preparation: Prepare surface to SSPC-SP2, (Hand Tool), SSPC-SP1 (Solvent Cleaner) specifications. Using a wire brush, by hand, remove all the loose foreign material from the surface. Surfaces shall be clean and free of all dirt, rust, and all other foreign material prior to the application of the primer and wax wrap.*