

THERMO-WRAP™ 24 HDD

HDD PROTECTION SYSTEM: BURY, BORE OR DRILL



Description

The Thermo-Wrap® 24 HDD System is designed to protect pipeline coatings & girth welds on pipelines from the abrasion stresses and scarring of directional drilling and boring. The Thermo-Wrap 24 HDD system provides mechanical protection to the preapproved corrosion coating of your choice, such as FBE, epoxy coatings. This unique product is easy to apply, has a very low profile, is extremely conformable, and is highly impact resistant. The result is cost-effective, long-term protection against corrosion for buried pipelines with superior mechanical protection.

Mechanical Properties

Test	Method	Temperature	Results
Tensile Strength	ASTM D3039	75°F (23°C)	80.03 ksi (552 MPa)
Tensile Modulus	ASTM D3039	75°F (23°C)	4.26 msi
Elongation	ASTM D3039	75°F (23°C)	2.10%
Dolly Pull Off Adhesion (SSPC-SP2 Prep on FBE)	ASTM D4541	75°F (23°C)	1,547 psi (10 MPa)
Hardness, Shore D @ 75°F (24°C)	ASTM D2240	75°F (23°C)	90
In-Plane Shear Strength	ASTM D5379	75°F (23°C)	13,055 psi (90 MPa)
Chord Shear Modulus	ASTM D5379	75°F (23°C)	629 ksi (4336 MPa)
Lap Shear (to steel)	ASTM D5868	75°F (23°C)	3,700 psi (25 MPa)
CTE	ASTM E831	75°F (23°C)	6.79 µm/m°C
Thickness per ply	NA	75°F (23°C)	0.027" (0.68mm)

Typical Applications

- Horizontal directional drilling
- Boring
- Corrosion protection
- Coating protection

Benefits

- Simple, cost-effective installation
- Non-hazardous
- Drastically reduced installation time and materials
- Easy to apply
- Consistency of application, joint after joint
- Smooth profile reduces damage during pull through

Physical Properties

VOCs: None

Pot Life: 75 Minutes @ 75°F (24°C)

Working Time:

45 Minutes @ 75°F (24°C)

Gel Time:

Approx. 161 Minutes @ 70°F (21°C)

Cure Time:

Approx. 12 Hours @ 104°F (40°C)

Approx. 3 Hours @ 200°F (93°C)

Service Temperature:

Max: Up to 300°F (149°C)

Application Temperature:

50° to 200°F (5° to 93°C)

Solids Content: 100%

Shelf Life: 12 Months with recommended storage methods

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