

THERMO-WRAP™ 24

REINFORCING, SEALING & WATER PROOFING



Description

Thermo-Wrap® 24 System is designed to seal & protect steel surfaces from corrosion while being exposed to elevated temperatures. Thermo-Wrap 24 is a reinforced coating which utilizes high strength epoxy and high tensile strength, bi-directional E-Glass fiber. Superior to traditional stand alone coatings, Thermo-Wrap 24 provides both corrosion protection and added rigidity and impact resistance. Once applied, Thermo-Wrap 24 stops the spread of existing corrosion and provides protection against future attack, further extending the service life.

Mechanical Properties

Test	Method	Temperature	Results
Tensile Strength	ASTM D3039	75°F (23°C)	69.7 KSI (480 MPA)
Tensile Modulus	ASTM D3039	75°F (23°C)	3 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

Typical Applications

- Reinforcing steel structures at elevated temperatures
- Sealing & water proofing at elevated temperatures
- Corrosion protection
- Coating protection

Benefits

- Simple, cost-effective installation
- Non-hazardous
- Drastically reduced installation time and materials
- Easy to apply
- Consistency of application
- Corrosion protection & sealing

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. 18 Hours @ 75°F (24°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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