

SYNTHO-SHIELD™

Syntho-Glass® Corrosion Protection System



STRUCTURAL STRENGTHENING

Syntho-Shield™ is an innovative system that offers exceptional mechanical and impact strength for corrosion protection coating applications whether they are underwater, underground or aboveground. It is uniquely designed as an effective solution to corrosion, insulation, and waterproofing problems.

Syntho-Shield™ is made up of a petrolatum primer/tape system undercoating for long-term corrosion protection, Syntho-Glass® XT for mechanical protection, and Syntho-Glass® SPF as a final mechanical and UV protection barrier. The petrolatum tape undercoating is made up of a non-woven synthetic fabric carrier that is fully impregnated with a neutral compound based on saturated petrolatum and inert siliceous fillers. The tapes are designed to provide long-term corrosion protection for pipes, flanges, valves, and related surfaces. Syntho-Glass® XT, a fiberglass cloth impregnated with a water activated resin, is used as a protective outer wrap. Syntho-Glass SPF is a UV-stable fiberglass cloth impregnated with a unique water-activated resin as a final, outer wrapping for additional mechanical and UV protection.

FEATURES

- ◆ Applied to marginally prepared surfaces (SSPC SP 2-3)
- ◆ Resistant to temperature extremes
- ◆ Resistant to water, acids, salts or soil organics
- ◆ Can be applied to wet surfaces and underwater
- ◆ Contains no solvents
- ◆ Meets AWWA C217 Standard

APPLICATIONS

Corrosion, insulation, sealing, and waterproof protection for:

- ◆ Underwater, above- and below-ground pipes, flanges, joints and valves
- ◆ Underwater, above- and below-ground oil, water and chemical pipelines
- ◆ Underwater pipelines and platform rig superstructures
- ◆ Concrete, steel and wooden pilings, in the splash zone, above and below water line
- ◆ Jetty, bridge and pier pilings and superstructure supports
- ◆ Municipalities' water and wastewater treatment piping systems
- ◆ Industrial and institutional plant piping and duct systems

Corrosion Protection

BENEFITS

- ◆ Eliminates unplanned down time for high-consequence piping
- ◆ Extends the life of aging and corroding assets
- ◆ Easy to apply with no mixing or messy cleanup
- ◆ Ready for immediate service
- ◆ No pipe cutting or welding
- ◆ Prevents future external corrosion



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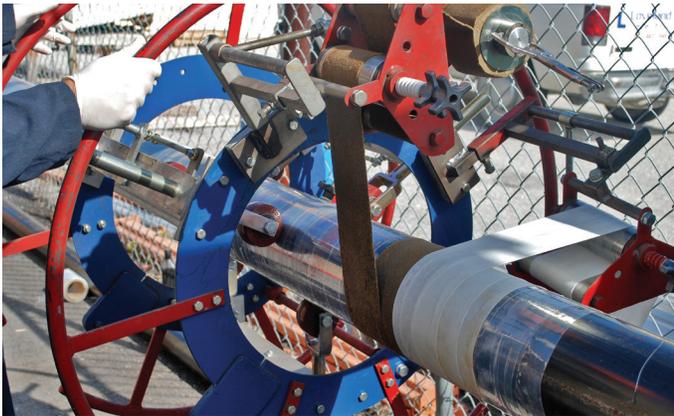


STRUCTURAL STRENGTHENING

QUALIFICATION DATA

MECHANICAL PROPERTIES

TEST	METHOD	RESULTS
Tensile Strength	ASTM D3039	Hoop: 54,000 psi (3,724.0 bar) Axial: 34,000 psi (2,344.8 bar)
Flexural Strength	ASTM D790	58,680 psi (4,046.8 bar)
Impact Resistance	ASTM G14/G62	123 ft lb (167J)
Cathodic Disbondment	ITI Study	4-5 mm radius of disbondment
Abrasion Resistance	ITI Study	3 mils/sec



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