

SYNTHO-GLASS®

FIBERGLASS WATER-ACTIVATED COMPOSITE SOLUTION



Description

Syntho-Glass® is the originally, patented fiberglass pre-impregnated composite that is activated by salt or freshwater. Packaged in a hermetically sealed foil pouch, it is ready to use and does not require any measuring or mixing. This system, when used with the appropriate primary sealant, enables you to repair and reinforce virtually any diameter pipe in minutes. Syntho-Glass not only restores a pipe to its original psi rating, but actually can make the repair area stronger than the original pipe, reducing downtime, saving in parts and labor. With an initial cure time of only 30 minutes (75°F/24°C), Syntho-Glass is excellent on copper, steel, SS, PVC, FRP, clay, concrete, rubber, and more. It is safe to use, nontoxic, noncombustible, and odorless. Syntho-Glass is a versatile solution for industries where quick-action repair can be critical.

Mechanical Properties

Test	Method	Result
Tensile Strength	ASTM D638	36,000 psi (2482.1 bar)
Lap Shear Strength	ASTM D5379	900 psi (62.05 bar)
Flexural Strength	ASTM D790	26,100 psi (1799.53 bar)
Dielectric Strength	ASTM D149	16,000 Volts
Impact Resistance	ASTM G14/G62	123 ft. lb (167J)

Item #	Roll Size	Item #	Roll Size
SG205	2" x 5' (5.08cm x 1.524m)	SG450	4" x 50' (10.16cm x 15.24m)
SG309	3" x 9' (7.62cm x 2.743m)	SG830	8" x 30' (20.32cm x 9.144m)
SG415	4" x 15' (10.16cm x 4.572m)	SG850	8" x 50' (20.32cm x 15.24m)
SG430	4" x 30' (10.16cm x 9.144m)		

Typical Applications

- Impact protection
- Emergency repair
- Corroded pipes
- Irregular pipe fittings
- Force mains and gravity lines
- Joint and tee repair
- Underwater repair and splash zone

Benefits

- Ready to use
- Effective, time-saving
- No mixing and no mess
- Sets rock hard in minutes

Physical Properties

VOCs: None

Working Time: 5 Minutes at 75°F (24°C)

Set Time: 30 Minutes at 75°F (24°C)

Resin Type: Water-activated polyurethane

Resin Application: Pre-impregnated

Service Temperature:

-50° to 250°F (-45° to 121°C)

Application Temperature:

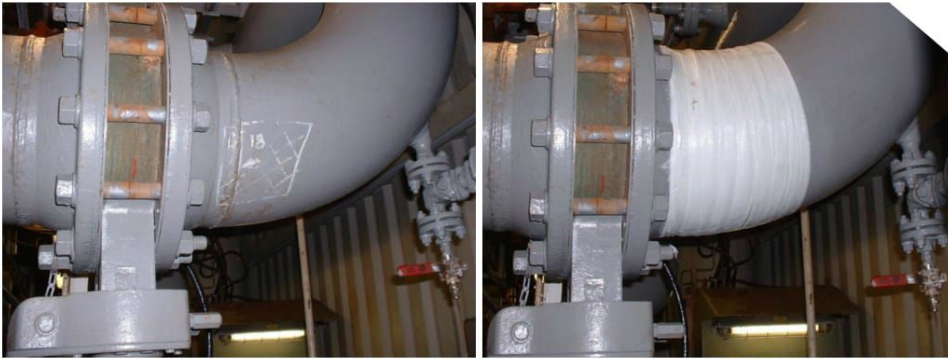
32° to 150°F (0° to 65°C)

Pressure once cured w/primary sealant:

Max 300 psi (20.6 bar)

Shelf Life: 24 Months with recommended storage





Chemical Resistance ASTM D 543, Test period 2 months at 73°F (23°C)

Solution Tested	Product Result
Sulfuric Acid 50%	No Effect
Hydrochloric Acid 50%	No Effect
Sodium Hydroxide Solution 20%	No Effect
Gasoline	No Effect
Toluene	No Effect
Xylene	No Effect
Mineral Spirits	No Effect
Distilled Water	No Effect

Temperature vs. Time

Average Temperature	Approx Work Time	Return to Service Time
95°F (35°C)	3 min.	23 min.
70°F (21°C)	8 min.	28 min.
60°F (16°C)	10 min.	1 hr. 25 min.
50°F (10°C)	14 min.	2 hrs. 42 min.
42°F (6°C)	17 min.	3 hrs. 2 min.
35°F (2°C)	20 min.	6 hrs. 21 min.



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