

SYNTHO-GLASS®

FIBERGLASS WATER-ACTIVATED COMPOSITE SOLUTION



Description

Syntho-Glass® is the original, 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 patch, 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, plus it reduces downtime, saving you thousands in parts and labor. With an initial setting 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.

Item #	Roll Size
SG520	2" x 5' (5.08cm x 1.524m)
SG930	3" x 9' (7.62cm x 2.743m)
SG415	4" x 15' (10.16cm x 4.572m)
SG430	4" x 30' (10.16cm x 9.144m)
SG450	4" x 50' (10.16cm x 15.24m)
SG830	8" x 30' (20.32cm x 9.144m)
SG850	8" x 50' (20.32cm x 15.24m)

Typical Applications

- Repairs pipes from 1/2 inch to 54 inches
- Emergency repair
- Cracked pipes
- Corroded pipes
- Irregular pipe fittings
- Force mains and gravity lines
- Underwater repair
- Splash zone
- Joint and tee repair
- Potable water lines

Benefits

- Ready to use
- Heat resistant
- 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)

Initial Cure Time: 30 Minutes at 75°F (24°C)

Resin Type: Water-activated polyurethane

Resin Application:

Micro-controlled, Pre-impregnated

Service Temperature:

-50° to 250°F (-45° to 121°C)

Application Temperature:

32° to 150°F (-18° to 65°C)

Shelf Life: 24 Months

Mechanical Properties

Tensile Strength: 36,448 psi (2513.0 bar)

Flexural Strength: 26,100 psi (1799.53 bar)

Compressive Strength:

24,846 psi (1713.07 bar)

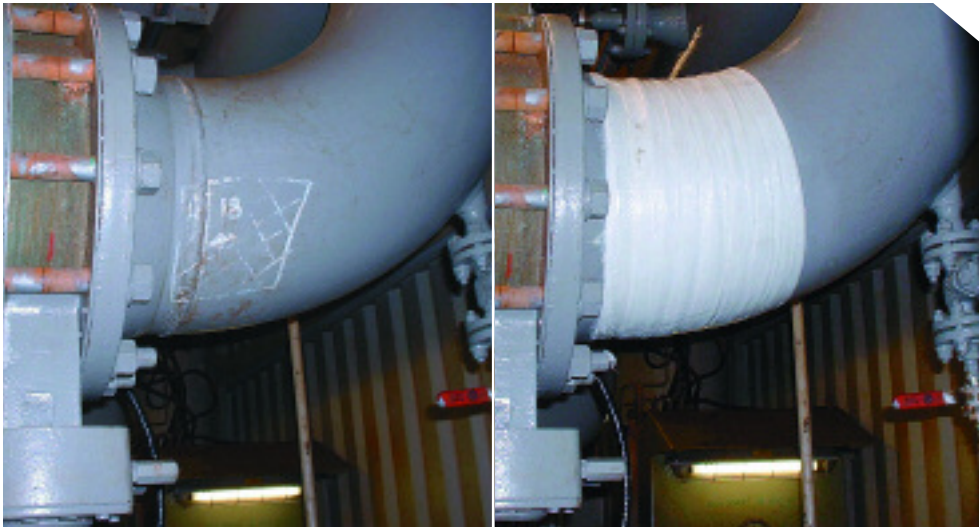
Dielectric Strength: 16,060 Volts

Temperature Resistance:

Continuous: 300°F/149°C

Intermittent: 500°F/260°C

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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. Setting Time

Average Temperature	Approximate Setting Time
95°F (35°C)	23 min.
70°F (21°C)	28 min.
60°F (16°C)	1 hr. 25 min.
50°F (10°C)	2 hrs. 42 min.
42°F (6°C)	3 hrs. 2 min.
35°F (2°C)	6 hrs. 21 min.



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