

SynthoGlass®

SynthoGlass® is a patented fiberglass pre-impregnated composite that is activated by saltwater or freshwater. When used with the appropriate primary sealant, it can repair and reinforce virtually any pipe in minutes. SynthoGlass® not only restores a pipe to its original pressure rating, it can make the repair area stronger than the original pipe.

SynthoGlass® is a versatile solution for situations in which swift repair is critical. With an initial setting time of only 7 minutes (75°F/24°C), SynthoGlass® provides superior, rapid repair on copper, steel, stainless steel, PVC, FRP, clay, concrete, and rubber pipe. Designed to be inherently safe, it is nontoxic, noncombustible, and odorless.

This repair system is easy to install. SynthoGlass® arrives on site packaged in a hermetically sealed foil pouch, ready to use without any measuring or mixing.

SynthoGlass® SPF is an aesthetically pleasing, non-yellowing, superior wrapping system that provides UV stabilization for pipe coatings, previous composite repairs or anywhere UV degradation is a concern.

SynthoGlass® SPF prevents future corrosion and abrasion due to mechanical impact, frost heave, crevice corrosion, galvanic corrosion, and vibration abrasion at soil to air interface, water to air interface and pipe support areas. It provides exceptional mechanical and impact protection and can be used underwater, underground, or on aboveground pipes and piles.



Applications

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

Features

- Quick and easy installation
- Excellent adhesion to many substrates
- Good chemical resistance range

Benefits

- SynthoGlass® is ready to use
- Quick and easy installation
- No mixing or mess
- No special tools needed
- Environmentally safe
- No VOCs
- Delivers simple, effective, durable repair/restoration
- Completely cures in minutes
- Excellent adhesion to many substrates
- Good chemical resistance

Material properties

AVERAGE TEMPERATURE	APPROXIMATE WORK TIME	RETURN TO SERVICE TIME
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50°F (10°C)	360 minutes	24 hours
60°F (16°C)	220 minutes	8 hours
75°F (24°C)	120 minutes	2 to 3 hours
90°F (32°C)	60 minutes	1 to 2 hours

PROPERTY	TYPICAL TEST VALUE
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Laminate Thickness	0.011 inch (0.23 mm)
Glass Transition (T _g) Temperature	180°F (82°C)
Hardness	70-80 Shore D
Short Beam Shear Strength	1,148 psi (79 bar)