

SYNTHO-SHORE™

Composite Repair System



STRUCTURAL STRENGTHENING

The Syntho-Shore™ product line is the first factory-saturated, ACI 440.2R-17 compliant composite repair system designed for structural repairs and reinforcement underwater. These systems are high-strength, light-weight products that are highly resistant to aggressive environments.

These systems are made of unique, uni-directional carbon fabrics that are pre-saturated with Syntho-Shore™ Saturant Resin and can be installed in splash zones or underwater.

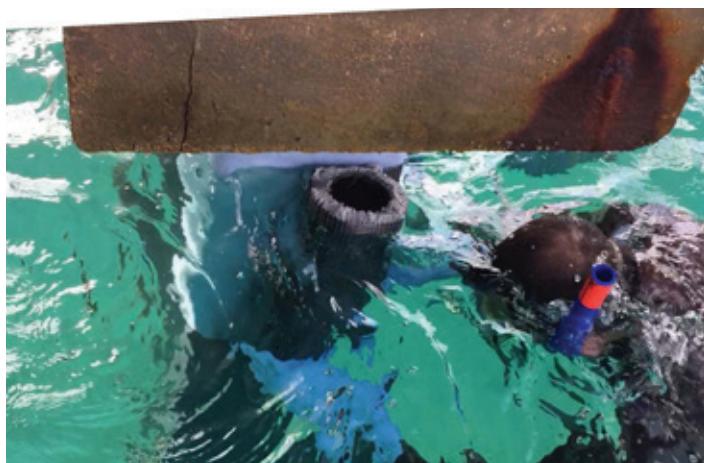
FEATURES

- ◆ High strength and light weight
- ◆ Not size specific
- ◆ Durable, highly resistant to aggressive environments
- ◆ Manufactured in an ISO 9001 facility with available certification for minimum physical properties
- ◆ Compliant with confinement equations in ACI 440.2R-17

APPLICATIONS

Structural strengthening of concrete or masonry structures for:

- ◆ An increase in load requirements due to code change or design error
- ◆ Containment and shear reinforcement
- ◆ Seismic retrofitting
- ◆ Structural damage
- ◆ Splash zone
- ◆ Immersed in water



CFRP structural repairs and reinforcement underwater

BENEFITS

- ◆ Applied to marginally prepared surfaces (SSPC SP 2-3)
- ◆ Resistant to temperature extremes, installable in cold water
- ◆ Easy to apply, no mixing or messy clean up
- ◆ Resistant to water, acids, salts or soil organics
- ◆ Can be applied to both wet surfaces and underwater
- ◆ Quick, long term protective coating, ready for immediate service
- ◆ 100% free of solvents and VOC's
- ◆ Upgrades designed bearing loads
- ◆ Does not require large mobilizations, cranes, or jackets
- ◆ No field coupon testing required
- ◆ Ready to use right out of the pouch
- ◆ No environmental hazards, pouring Portland cement
- ◆ Delivers simple, safe, effective, durable, restoration/uprating



www.geotreesolutions.com

+1.855.655.6750

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QUALIFICATION DATA

SYNTHO-SHORE 118C GROSS LAMINATE PROPERTIES PER ASTM D3039

PROPERTIES	LABORATORY CONDITIONS	UNDERWATER
Tensile Strength	147.6 ksi (1,018 MPa)	144,623 psi (997.51 MPa)
Tensile Modulus	12.32 GPa (12.32 GPa)	11.35 GPa (11.35 GPa)
Tensile Elongation	1.12%	1.27%
Nominal Ply Thickness	0.035 in. (0.889mm)	0.035 in. (0.889mm)



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