

SYNTHO-SHORE™ 127G

FACTORY-SATURATED STRUCTURAL REPAIR SYSTEM

Description The Syntho-Shore product line is the first under-water FRP system that is ACI 440.2R-08 compliant designed for structural repairs and reinforcement. Syntho-Shore 127G is factory-saturated, comprised of a unique, uni-directional glass fabric.

Typical Applications Structural strengthening of concrete, masonry, and wood piles which are submerged under-water or have high moisture content on the substrate.

- Benefits**
- System is not size specific and does not require large mobilizations, like FRP jackets do
 - Much simpler to use under-water compared to FRP jackets
 - System complies with confinement equations in ACI 440.2R-08
 - Manufactured in an ISO 9001 facility with available certification for minimum physical properties, no field coupon testing required
 - 100% solvent free; zero VOC system
 - Durable, highly resistant to aggressive environments; can be used in splash zone or immersion
 - High strength and light weight

Coverage (3.5) gallons of Syntho-Shore Epoxy Primer, (1) roll of factory-saturated 24" x 30' (0.6m x 9.14m)

Mixing & Mix Ratio None required. See TDS for Syntho-Shore Primer for mix ratios of the primer

Pot Life Syntho-Shore: 150 minutes @ 75°F (24°C), less at higher temperatures for 100 g mass
 Syntho-Shore Epoxy Primer: 90 minutes @ 75°F (24°C), less at higher temperatures for 100 g mass

- Limitations**
- Application temperature shall be a minimum of 40°F (10°C) and maximum of 180°F (83°C)
 - Service temperature -40° to 180°F (-40 to 83°C)

Related Products Syntho-Shore Epoxy Primer

Composite Gross Laminate Properties per ASTM D-3039

Property	Average Test Value		Design Value	
	US Units	SI Units	US Units	SI Units
Tensile Strength	80,500 psi	555 MPa	70,750 psi	487.80 MPa
Tensile Modulus	4.02 Msi	27,716 MPa	4.02 Msi	27,716 MPa
Tensile % Elongation	2.15	2.15	1.76	1.76
Nominal Ply Thickness	0.04 in	1.02mm	0.04 mm	1.02 mm

Dry Fiber Material Properties

Property	US Units	SI Units
Tensile Strength	550,000 psi	3,790 MPa
Tensile Modulus	34.5 x 10 ⁶ psi	2,300 MPa
Ultimate Elongation	1.5%	
Density	0.065 lbs/in ³	1.8 g/cm ³
Weight	18 oz/yd ²	600 g/m ²



Design	The Syntho-Shore product line is an ACI 400.2R-08 compliant repair system. Consult NRI
Surface Preparation	Surface preparation shall be in accordance with ACI 546R, ICRI No. 310.1R-2008 and ACI 562-13 detail methods for the repair and surface preparation of concrete.
Installation	Installation of the Syntho-Shore system shall be performed by NRI qualified applicators only. Surface preparation, mixing of epoxy, and installation of the system are to be in accordance with NRI's Syntho-Shore product line Installation Guide, latest revision. Quality control inspection during and after installation of the system shall be performed per NRI's In-Field Quality Manual, latest revision.
Cleanup and Safety	For proper information regarding the safe handling, storage, and disposal of chemical products, users shall refer to the SDS, latest revision, containing physical, ecological, toxicologi-
Shelf Life	Syntho-Shore: 12 months Syntho-Shore Epoxy Primer: 12 months
Storage Conditions	Syntho-Shore: Store indoors in cool, dry, ventilated storage at temperatures ≤ 95°F (35°C). Syntho-Shore Epoxy Primer: Store in original, unopened containers.
Packaging	Syntho-Shore: 24" x 30' (0.6m x 9.14m) Syntho-Shore Epoxy Primer: 2 gallon (7.6L)
Warranty	©Neptune Research Inc. (NRI) NRI® is a registered trademark, while Syntho-Shore™ and Syntho-Shore™ Epoxy Primer are trademarks of NRI. NRI utilizes a process of continuous product improvement for all of our products. While we do strictly adhere to our products' specifications, we routinely implement product improvements. Therefore, please contact your local NRI distributor or office for the most current product specifications. NRI warrants the quality of this product when used according to directions. Syntho-Shore is not an approved coating system. Failing to coat per standard procedures can to atmospheric corrosion damage. Apply protective coatings per company standards. User shall determine suitability of product for use and assumes all risk. The seller will not accept liability for more than product replacement.