

# SYNTHO-SHORE™ 118C

## FACTORY-SATURATED STRUCTURAL REPAIR SYSTEM

<b>Description</b>	The Syntho-Shore product line is the first factory-saturated ACI 440.2R-08 compliant composite repair system designed for structural repairs and reinforcement. The systems are comprised of unique, uni-directional carbon or glass fiber fabrics, pre-saturated with Syntho-Shore Saturant Resin.
<b>Typical Applications</b>	Structural strengthening of concrete or masonry structures for: <ul style="list-style-type: none"> <li>• An increase in load requirements due to code change or design error</li> <li>• Containment and shear reinforcement</li> <li>• Seismic retrofitting</li> <li>• Structural damage</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• No field-saturation required</li> <li>• System meets all ACI 440.2R-08 material specification requirements</li> <li>• Manufactured in an ISO 9001 facility with available certification for minimum physical properties, no field coupon testing required</li> <li>• 100% solvent free; zero VOC system</li> <li>• Moisture-cure provides increased surface tolerance in wet or high humidity environments, applicable at up to 85% humidity</li> <li>• Durable, highly resistant to aggressive environments; can be used in splash zone or immersion</li> <li>• High strength and lightweight</li> </ul>
<b>Coverage</b>	300ft <sup>2</sup> (27.9m <sup>2</sup> ) surface area requires: (3) gallons of Syntho-Shore Epoxy Primer, (5) rolls of factory-saturated 24" x 30' (0.6m x 9.14m)
<b>Mixing &amp; Mix Ratio</b>	As detailed on individual product datasheets
<b>Pot Life</b>	Syntho-Shore: 150 minutes @ 75°F (24°C), less at higher temperatures Syntho-Shore Epoxy Primer: 90 minutes @ 75°F (24°C), less at higher temperatures
<b>Limitations</b>	<ul style="list-style-type: none"> <li>• Application temperature shall be a minimum of 40°F (10°C) and maximum of 180°F (83°C)</li> <li>• Service temperature -40° to 180°F (-40 to 83°C)</li> </ul>
<b>Related Products</b>	Syntho-Shore Epoxy Primer

Composite Gross Laminate Properties per ASTM D-3039	Property	Average Ultimate Values			
		Samples Cured in Laboratory Conditions		Samples Cured Underwater	
		US Units	SI Units	US Units	SI Units
	Tensile Strength	147,594 psi	1,018 MPa	144,623 psi	997.51 MPa
	Tensile Modulus	12,320,000 psi	84,943 MPa	11,346,000 psi	78,232 MPa
	Tensile % Elongation	1.12	1.12	1.27	1.27
	Nominal Ply Thickness	0.035 in	0.889mm	0.035	0.889

  

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



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<b>Design</b>	The Syntho-Shore product line is an ACI 400.2R-08 compliant repair system. Consult NRI Engineering for specified use.
<b>Surface Preparation</b>	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.
<b>Installation</b>	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.
<b>Cleanup and Safety</b>	For proper information regarding the safe handling, storage, and disposal of chemical products, users shall refer to the SDS, latest revision, containing physical, ecological, toxicological, and other safety-related data.
<b>Shelf Life</b>	Syntho-Shore: 12 months Syntho-Shore Epoxy Primer: 12 months
<b>Storage Conditions</b>	Syntho-Shore: Store indoors in cool, dry, ventilated storage at temperatures ≤ 95°F (35°C). Syntho-Shore Epoxy Primer: Store in original, unopened containers.
<b>Packaging</b>	Syntho-Shore: 24" x 30' (0.6m x 9.14m) Syntho-Shore Epoxy Primer: 2 gallon (7.6L)
<b>Warranty</b>	©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.

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