

# SYNTHO-SUPPORT™

## SUPERIOR PROTECTION FOR PIPES AT SUPPORTS

**Description** Syntho-Support™ has been specifically designed to be a superior wrapping system for pipe support areas to prevent future corrosion and abrasion due to crevice corrosion, galvanic corrosion, heat affected zone corrosion and vibration abrasion. This system, when used with a corrosion coating of your choice, provides exceptional mechanical and impact protection on steel (CS & SS), galvanized, concrete, FRP, ductile iron, and PVC.

**Typical Applications**

- Corrosion prevention
- Protection at support areas
- Mechanical barrier

**Benefits**

- Pre-saturation optimizes fiber to resin ratio and provides the material with a consistent strength property
- Gouge, impact and abrasion resistance
- Prevents corrosion
- Easy-to-apply
- Can be applied above- and below-grade and in immersion
- Ships as non-hazardous, non-flammable formulation
- No VOCs

**Coverage** Based on pipe size

**Thickness** 45 mils/ply

**Mixing & Mix Ratio** No mixing required

**Pot Life** 30 minutes @ 75°F (24°C), less at higher temperatures

**Limitations**

- Product may yellow due to UV exposure
- Used for corrosion, abrasion, and impact protection only
- Can be used on diameters between 2" and 48"

**Related Products**

- UV protection: Syntho-Coat or Syntho-Glass®UV
- Compression film

Properties	Test	Result
	Impact Resistance	373 in/ lbs
	Hardness, Shore D	76 @ 75°F (24°C)
	Abrasion Resistance	4.5 mils
	Gouge Resistance	52%

**Design** Syntho-Support was designed to protect pipe supports. Consult NRI Engineering for specified use.

**Surface Preparation** Surface preparation and profiling shall promote continuous intimate contact between the FRP system and pipe by providing a clean, smooth, and circumferential surface. Surface preparation shall be in accordance with SSPC-SP1 "Solvent Cleaning" and SSPC-SP11 "Power Tool Cleaning" with a 1-3 mil surface roughness (25-75 microns) minimum. If existing coating is present, roughen to degloss. NRI's composite repair systems are bond-critical and require a strong adhesive bond between the clean pipe and the composite system.



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**Installation** Surface preparation, and installation of the system shall be in accordance with NRI's Syntho-Support Installation Guide, latest revision. Quality control inspection during and after installation of the system shall be performed per NRI's Installation Validation Procedure: Quality Control Records, latest revision.

Cure Schedule	Temperature	Working Time	Set Time
	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

Measure Shore D hardness to confirm full set has been achieved before returning line to service.

**Cleanup and Safety** For proper information regarding the safe handling, storage, and disposal of chemical products, users shall refer to the most recent SDS, latest revision, containing physical, ecological, toxicological, and other safety-related data.

**Shelf Life** 12 months

**Storage Conditions** Store in original, unopened packaging, indoors at a max temp of 95°F (35°C)

**Packaging** Packaging based on size  
Typically ships in 17" x 15" x 14" boxes (43cm x 38cm x 36cm)

**Warranty** ©Neptune Research Inc. (NRI) NRI® is a registered trademark while Syntho-Support™ and Syntho-Subsea™LV 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. 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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