

SYNTHO ♦ SUPPORT™ UV

SUPERIOR PROTECTION FOR PIPES AT SUPPORTS WITHOUT ULTRAVIOLET DEGRADATION

Description	Syntho-Support™ UV has been specifically designed to be used over existing coating systems to provide exceptional mechanical and impact protection on steel, galvanized, concrete, FRP, iron and PVC. Syntho-Support can be used wherever corrosion or abrasion is present.	
Typical Applications	<ul style="list-style-type: none"> • Corrosion prevention • Protection at support areas • Mechanical barrier 	
Benefits	<ul style="list-style-type: none"> • Prevents corrosion • Impact / abrasion resistance • UV stable, no topcoat required • Pre-saturated • Can be applied in any weather condition, even immersion • Color stable • Ships as non-hazardous, non flammable formulation 	
Coverage	As determined by NRI engineering calculations	
Thickness	As determined by NRI engineering calculations	
Mixing & Mix Ratio	Power mix Part A, then combine with Part B and power mix. Do not mix partial kits. Resin to hardener 100:15 by volume.	
Pot Life	3 hours @ 75°F (24°C), less at higher temperatures	
Limitations	<ul style="list-style-type: none"> • 6 month shelf life • Corrosion or abrasion protection only 	
Properties	Property	Typical Test Value
	Impact Resistance	373 in / lbs
	Abrasion Resistance	4.5 mils
	Gouge Resistance	65 mils
	Interlaminar Shear Strength	2,840 psi (195 bar)
	Shore D Hardness	76
Design	Syntho-Support UV is designed to provide UV stability, as well as protection at 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.	
Installation	Installation of the Syntho-Support UV composite repair system shall be performed by NRI qualified applicators only. Surface preparation, and installation of the system shall be in accordance with NRI's product specific installation guides, 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.	



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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 6 months

Storage Conditions Store in a cool, shaded area at an ambient temperature of 72°F (23°C)

Packaging Syntho-Support UV is packaged based on size of roll.
Typically ships in 17" x 15" x 14" boxes

Warranty ©Neptune Research Inc. (NRI) NRI® is a registered trademark, while Syntho-Support™ UV is a trademark 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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