

SYNTHO-GLASS®UV

SUPERIOR UV & MECHANICAL PROTECTION FOR PIPES AND PILINGS

Description Syntho-Glass®UV has been specifically designed to be an aesthetically pleasing, non-yellowing superior wrapping system that provides UV stabilization. Syntho-Glass®UV prevents future corrosion and abrasion due to mechanical impact, frost heave, crevice corrosion, galvanic corrosion and vibration abrasion at soil to air interface, and water to air interface as well as pipe support areas.

Typical Applications

- Protection at soil-to air interface
- UV Protection
- Mechanical, abrasion and splash zone protection
- Corrosion prevention
- Support area protection

Benefits

- Non-yellowing
- Prevents corrosion
- Impact/abrasion resistance
- Easy to apply
- No mixing, no measuring ensures consistent glass-to-resin ratio; therefore, consistent results
- Can be applied in above- or below-grade and immersion
- Contains no solvents

Coverage As determined by NRI engineering calculations and roll sizes

Thickness As determined by NRI engineering calculations

Mixing & Mix Ratio No mixing required

Working Time 60 to 75 minutes @ 75°F (24°C), less at higher temperatures

Limitations 6 month shelf life

Related Products Syntho-Glass UV can be used on top of any of NRI's composite reinforcement systems

Composite Laminate Properties	Property	Typical Test Value
	Laminate Thickness	0.011" (2.794mm)
Glass Transition (Tg) Temp	180°F (82°C)	
Shore D Hardness	70-80	
Short Beam Shear Strength	1,148 psi (79.1 bar)	

Design Designed for mechanical abrasion and UV protection

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 an 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 Installation of the system is to be used in accordance with NRI's Syntho-Glass UV Installation Guide, latest revision. Quality control inspection during and after installation of the Syntho-Glass UV 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 6 months

Storage Conditions Store indoors in cool, dry, ventilated storage at temperatures below 95°F (35°C)

Packaging Syntho-Glass®UV is available in 2", 3", 4", and 8" rolls; packaging varies on size purchased. Typically ships in 17" x 15" x 14" boxes (43cm x 38cm x 36cm)

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