

SYNTHO SUBSEALV

LOW VISCOSITY, SELF-LEVELING, IMMERSION EPOXY PRIMER SYSTEM

Description	Syntho-Subsea™LV Epoxy, a Kevlar-reinforced tri-polymer, utilizes liquid epoxy, polymer, and aliphatic polyamine curing agents, in order to displace water from wet surfaces.
Typical Applications	<ul style="list-style-type: none"> • Anticorrosive coating, including splash zone and subsea applications • Encapsulating coating • Pipeline repair • Concrete repairs • Pipeline anomaly reinforcement and remediation • Brush or roller applied • All ISO 12944 environments (C1-C5M)
Benefits	<ul style="list-style-type: none"> • Use above- or below-grade, as well as immersion • Zero VOC system • Chemical resistant coating • Excellent abrasive resistance • Ships as non-hazardous by USDOT, IATA, and IMO • Fully cured in 24 hours
Coverage	53.5 sq. ft./mixed gallon @ 30 mils 26.8 sq. ft./mixed gallon @ 60 mils
Thickness	Recommended mil thickness: 30-60 mil
Mixing & Mix Ratio	1:1 by volume
Pot Life	20 minutes @ 77°F (25°C), less at higher temperatures
Limitations	Epoxy application temperature: Dry: minimum of 50°F (10°C) and maximum of 275° F (135°C) Wet: minimum of 50°F (10°C) and maximum of 160° F (71°C)
Related Products	<ul style="list-style-type: none"> • Syntho-Poxy™ HC • Syntho-Glass® • Syntho-Glass® XT • Viper-Skin™

Material Properties	Test	Method	Result
	Tensile Strength	ASTM D3039	6,000 psi (413.68 bar)
	Compression Strength	ASTM D695	7,380 psi (508.83 bar)
	Flexural Strength	ASTM D790	4,550 psi (313.71 bar)
	Flexural Modulus	ASTM D790	142,188 psi (9803.51 bar)
	Lap Shear Strength	ASTM D3163	1,782 psi (122.86 bar)
	Abrasion Resistance	CS17 wheels with 1,000 gram weights	34.0 mg/1,000 cycles

Design NRI's engineered composite repair systems were designed to conform to, and are recognized by ASME PCC-2, ASME B31, ISO TS24817, DOT, API, and CSA Z662 standards for non-metallic reinforcing solutions. 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 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 NRI's engineered composite systems shall be performed by NRI qualified applicators only. Surface preparation, mixing of epoxy, material saturation, and installation of the systems 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.

Cure Schedule	Temperature	Working Time	Set Time
	50°F (10°C)	225 minutes	24 hours
	60°F (16°C)	150 minutes	12 hours
	75°F (24°C)	75 minutes	4 hours
	90°F (32°C)	35 minutes	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 24 months

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

Color Resin: white
Curing agent: green

Packaging	Item #	Description
	SUBLV04OZ	4 oz (197g) Bi-Pack
	SUBLV08OZ	8 oz (394g) Bi-Pack
	SUBLV16OZ	16 oz (787g) Bi-Pack
	SUBLV02QT	2qt (1.892l) Kit Contains 1qt A + 1qt B
	SUBLV02G	2 gal (7.570l) Kit Contains 1gal A + 1gal B
	SUBLV10G	10 gal (37.854l) Kit Contains 5gal A + 5gal B

Typically ships in 17" x 15" x 14" boxes (43cm x 38cm x 36cm)

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