

SYNTHO-SUBSEA™ LV EPOXY

LOW VISCOSITY, SELF LEVELING, UNDERWATER EPOXY MASTIC SEALANT SYSTEM



Description

Syntho-Subsea™ LV Epoxy is a unique blend of liquid epoxy, polymer, and aliphatic polyamine curing agents that is able to displace water from wet surfaces in order to make a permanent bond. The formulation is solvent-free to ensure safety and maximum technical performance. Kevlar® fibers are incorporated for reinforcement and viscosity management to achieve high-application rates – even underwater. Provides permanent protection under the most adverse conditions, the formula is uniquely field-friendly and uses advanced, low-toxicity ingredients in a high-build brushable/rollable product. The sister product, Syntho-Subsea™ Epoxy, is available if a higher viscosity, light paste consistency is required. Syntho-Subsea LV Epoxy can be shipped nonregulated by USDOT, IATA, and IMO.

Item #	Pre-weighted	Volume
SUBLV	5 lb. kit	1 Quart
SUBLVG	20 lb. kit	1 Gallon

Typical Applications

- **Anticorrosive Coating:** Splash zone, excellent abrasion resistance above or below water.
- **Repair Compound:** Patching, coating repair, etc.
- **Field Joint Compound:** Rapid curing, surface tolerant, and excellent cathodic disbondment properties.
- **Encapsulating Coating:** Smooth, dense, easily decontaminated coating for steel and concrete.
- **Wastewater:** Reinforces, smoothes, and protects concrete exposed to chemical or municipal waste.
- **Application Method:** Brush, roller, heated plural airless spray, or trowel.

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Physical Properties

VOCs: None
 Vehicle Type: Epoxy/Aliphatic amines
 Pigmentation:
 Color/Inert/Fibrous reinforcement
 Colors: Aqua/White
 Cleaner: MEK or lacquer thinner
 Mixing Ratio: 1:1 by volume
 Pot Life at 77°F (25°C): 20 Minutes
 Flash Point: Over 200°F (93°C)
 Solids by Volume: 100%
 Spreading Rate/Gallon:
 1,604 mil/sq. ft.
 53.5 sq. ft./30 mils
 Dry Time at 77°F (25°C):
 Light Service: 3 Hours
 Dust Free: 4 Hours
 Heavy Service: 24 Hours
 Storage Conditions: Normal, Freezing OK
 Shelf Life: 24 Months

Mechanical Properties

Compression Strength: 7,380 psi (508.83 bar)
 Tensile Strength: 6,000 psi (413.68 bar)
 Flexural Strength: 4,550 psi (313.71 bar)
 Abrasion Resistance: 34.0 mg/1,000 cycles (CS17 wheels with 1,000 gram weights)
 Flexural Modulus: 142,188 psi (9803.51 bar)
 Lap Shear: 2,000 psi (137.89 bar)
 Minimum/Maximum Usage Temperature:
 Dry Application: -50°/275°F (-45°/135°C)
 Wet Application: -50°/160°F (-45°/71°C)

