

SYNTHO-COAT™ 500

COATING FOR UV PROTECTION

Description Syntho-Coat™ was designed to protect the integrity and appearance of composite repairs from deterioration due to UV exposure.

Typical Applications

- UV protection over any of NRI's composite reinforcement systems
- Soil-to-air interface
- Offloading piping on docks and terminals
- Waterfront piping, saltwater exposure areas
- Protection to piping and tanks from nearby corrosive services

Benefits

- Non-hazardous
- Easy-to-use
- Water-proof
- Heat-reflective
- Cost-effective, time-saving
- Provides excellent bond

Theoretical Coverage 529ft²/gallon @ 1 mil DFT; 13.0m²/l @ 25 microns

Thickness As determined by NRI engineering calculations

Mixing & Mix Ratio As detailed on individual product datasheets

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

Limitations

- Epoxy application temperature: minimum of 50°F (10°C) and maximum of 180°F (38°C), with allowable temperatures up to 500°F (260°C) once fully cured
- Maximum allowable sustained humidity must be less than 90%
- VOCs 3.5 lb/gal (420 g/l)

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

Properties	Property	Typical Test Value
	Solids Content	33% by volume
	Shore A Hardness	70
	Tensile Strength	580 psi
	Tensile Modulus	570 psi
	Tear Strength	105 lbs
	Mix Ratio	Single component
	VOCs	None
	Color	Gray

Design Syntho-Coat 500 was designed to protect the integrity and appearance of composite repairs from deterioration due to UV exposure.

Surface Preparation For cosmetic service only. If an existing coating is present, roughen to degloss. Surfaces to be coated must be dry and free of salts, weld splatter, oil, dirt, grease, and all other contaminants.



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

Cure Schedule	Temperature	Set Time
	50°F (10°C)	2 hours
	60°F (16°C)	1 hour
	70°F (24°C)	30 minutes
	90°F (32°C)	20 minutes

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

Packaging Typically ships in 12" x 12" x 18" boxes (305mm x 330mm x 1626mm)

Warranty ©Neptune Research Inc. (NRI) NRI® is a registered trademark while Syntho-Coat™500 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. Syntho-Coat 500 is NOT an approved coating system. Failing to coat per standard procedures can lead to atmospheric corrosion damage. 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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