

TITAN™ SATURANT EPOXY



Description

The Titan™-Saturant Epoxy is a two-part, 100% solid epoxy system designed for composite laminate repair in conjunction with our infrastructure repair system, Titan™. The Titan line of products are custom engineered composite systems which utilize high strength repair laminates in combination with NRI's proprietary resin formulation. This unique composite system is used to repair and reinforce concrete structures without expensive and time-consuming rebuilding cost. The development of this system was designed to conform to ACI440 standards for nonmetallic composite reinforcing solution of concrete. The superior performance values of an epoxy based system provide high tensile values using fiberglass or carbon fiber laminates. By incorporating proprietary load transfer and bonding technologies, developed by NRI, this results in a highly effective system capable of repairing concrete in the toughest conditions.

Mechanical Properties

Test	Method	Result
Tensile Strength	ASTM D638	6,311 psi (435.13 bar)
Tensile Modulus	ASTM D638	312,000 psi (21,511.64 bar)
Tensile Strain	ASTM D638	1.76%
Pull-Off Strength	ASTM D4541	>3,400 psi (234.42 bar)
Lap Shear Strength	ASTM D1002	3,150 psi (217.18 bar)

Typical Applications

- Concrete pipe supports
- Piers and pilings
- Bridge columns
- Concrete and/or steel columns, beams and slabs

Benefits

- High temperature resistant
- Chemical resistant
- Long working time
- Pre-measured epoxy kit means no field measurement

Physical Properties

VOCs: None

Pot Life: 75 Minutes @ 75°F (24°C)

Working Time:

45 Minutes @ 75°F (24°C)

Gel Time:

Approx. 161 Minutes @ 70°F (21°C)

Cure Time:

Approx. 18 Hours @ 75°F (24°C)

Service Temperature:

Max: Up to 300°F (149°C)

Application Temperature:

50° to 200°F (5° to 93°C)

Solids Content: 100%

Shelf Life: 12 Months with recommended storage methods



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