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NPR-5303 **Medium Viscosity Sprayable Structural Epoxy System**

NPR-5303 is a rapid curing, high strength, high corrosion resistant modified epoxy resin designed to repair manholes, sumps, wet wells, pipelines, tanks, and more. Excellent cure at low temperatures and in the presence of water. Typically develops a hard surface in 1-2 hours. Rapid development of physical properties. Film thickness of 40 – 150 mils in a single pass by spray or brush.

Third party testing and extensive field experience demonstrates excellent chemical resistance to 30% sulfuric acid, 5% nitric acid, 5% sodium hydroxide, hydrogen sulfide, caustics, gasoline, and other hydrocarbons.

Typical Physical Properties

Mix Ratio (Resin/Hardener) Mix Ratio (Resin/Hardener) Initial Cure Time, 100 Grams @ 77°F (25°C)	1.5 to 1 by Volume 1 to 1 by Weight 30 minutes
Specific Gravity (resin) Weight Per Gallon (resin) Specific Gravity (hardener) Weight Per Gallon (hardener) Weight Per Gallon (mixture)	1.06 – 1.09 G/ml 8.9 – 9.1 Lbs 1.64 – 1.71 G/ml 13.7 – 14.3 Lbs 11.3 – 11.7 Lbs
Flexural Modulus (ASTM D-790) Flexural Strength (ASTM D-790) Tensile Elongation (ASTM D-638) Tensile Strength (ASTM D-638) Tensile Modulus (ASTM D-638) Compressive Strength (ASTM C-579) Coefficient of Linear Thermal Expansion Maximum Service Temp. (ambient cure) Maximum Service Temp. (postcured) Shore D Hardness (ASTM D-2240-15e1) Shrinkage Adhesion: Concrete (ASTM D-4541-95el) Adhesion: Steel (ASTM D-4541-95el) Abrasion Resistance (D4060-95, CS17)	600,000 psi 15,000 psi 5% 7,500 psi 290,000 psi 20,000 psi 37 x 10-6 cm/cm/OC 150°F (66°C) 168°F (76°C) >86 <0.5% Concrete Fails >2500 psi 50mg/1000 @1000 gram load
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