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NPR-5301

Super Low Viscosity Sprayable Epoxy System

NPR-5301 is a rapid curing, high strength, high corrosion resistant modified epoxy resin designed to repair manholes, sumps, wet wells, pipelines, tanks, and more. **It is also recommended for waterproofing.** 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 5 – 40 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)	***1.5 to 1 by Volume***
Mix Ratio (Resin/Hardener)	1 to 1 by Weight
Initial Cure Time, 100 Grams @ 77°F (25°C)	**30 minutes**
Specific Gravity (resin)	1.06 – 1.09 G/ml
Weight Per Gallon (resin)	8.9 – 9.1 Lbs
Specific Gravity (hardener)	1.64 – 1.71 G/ml
Weight Per Gallon (hardener)	13.7 – 14.3 Lbs
Weight Per Gallon (mixture)	11.3 – 11.7 Lbs
Flexural Modulus (ASTM D-790)	600,000 psi
Flexural Strength (ASTM D-790)	15,000 psi
Tensile Elongation (ASTM D-638)	5%
Tensile Strength (ASTM D-638)	7,500 psi
Tensile Modulus (ASTM D-638)	290,000 psi
Compressive Strength (ASTM C-579)	20,000 psi
Coefficient of Linear Thermal Expansion	37 x 10-6 cm/cm/OC
Maximum Service Temp. (ambient cure)	150°F (66°C)
Maximum Service Temp. (postcured)	168°F (76°C)
Shore D Hardness (ASTM D-2240-15e1)	>86
Shrinkage	<0.5%
Adhesion: Concrete (ASTM D-4541-95el)	Concrete Fails
Adhesion: Steel (ASTM D-4541-95el)	>2500 psi
Abrasion Resistance (D4060-95, CS17)	50mg/1000 @1000 gram load