TECHNICAL DATA SHEET

NPR-1571 EPOXY

High Heat Epoxy System for Large Diameter CIPP

Rev. 20251215

DESCRIPTION

Neopoxy NPR-1571 Epoxy is a two-part 100% solids epoxy coating specially designed for medium and large diameter high heat cured-in-place-pipe (CIPP) applications. Slow curing formulation designed for continuous heat resistance and structural strength. Low viscosity allows for rapid wet out of CIPP liner. Initial ambient cure should be followed with post cure to achieve superior heat resistance. Hydrophobic properties allow for effective curing in the presence of moisture. NPR-1571 Epoxy demonstrates excellent chemical resistance to sulfuric acid, nitric acid, sodium hydroxide, hydrogen sulfide, caustics, gasoline, and other hydrocarbons.

FEATURES

- Specially formulated for high heat CIPP applications
- 100% solids, solvent free, no VOCs
- Chemical and corrosion resistant
- Very strong surface bond
- Protects for decades

USES

- Impregnation of cure-in-place-pipe liners (CIPP) for pipe rehabilitation
- NPR-5305 Epoxy may be used for CIPP end sealing

CIPP EPOXY OPTIONS

Product	Application	Initial Cure Time 100 Grams @ 77°F (25°C)
NPR-5701	CIPP Fast-Curing Epoxy System	30 Minutes
NPR-4501	CIPP Medium Diameter Epoxy System	55 Minutes
NPR-1701	CIPP Medium Diameter Epoxy System	2 Hours
NPR-1571	CIPP Large Diameter High Heat Epoxy System	8 Hours

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PHYSICAL PROPERTIES

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Description	Standard	Data
Mix Ratio (Resin/Hardener)	-	**1 to 1 by Weight**
Initial Cure Time, 100 Grams @ 77°F (25°C)	-	8 Hours
Weight Per Gallon (Resin)	-	9.7 Lbs
Weight Per Gallon (Hardener)	-	12.5 Lbs
Weight Per Gallon (Mixture)	-	10.9 Lbs
Specific Gravity (Resin)	-	1.17 G/ml
Specific Gravity (Hardener)	-	1.50 G/ml
Maximum Service Temperature (Postcured at 212°F (100°C))	-	300°F (149°C)
Coefficient of Linear Thermal Expansion	-	3.738×10^{-6} cm/cm/°C
Shrinkage	-	<0.1%
Viscosity, Resin @ 20 RPM, 77°F (25°C) (Brookfield Spindle LV-4 [64])	-	12,000 cPs
Viscosity, Hardener @ 20 RPM, 77°F (25°C) (Brookfield Spindle LV-4 [64])	-	13,000 cPs
Flexural Strength (Clear Cast)	ASTM D-790	16,000 psi
Flexural Modulus (Clear Cast)	ASTM D-790	450,000 psi
Flexural Strength (Laminate*)	ASTM D-790	11,000 psi
Flexural Modulus (Laminate*)	ASTM D-790	470,000 psi
Shore D Hardness	ASTM D-2240	>85
Adhesion to Concrete	ASTM D-4541 ASTM D-7234	Concrete Failure
Adhesion to Steel	ASTM D-4541	>2,500 psi
Abrasion Resistance (Taber Abraser)	ASTM D-4060	50 mg loss (1000 cycles @ 1000 gram load)
Volatile Organic Compounds (VOCs)	ASTM D-3960	0.0 Lbs/Gallon
Chemical Resistance	ASTM F-1216 ASTM D-543 ASTM D-2122	Requirements Met

**3mm PET Felt Laminate Cured at 176°F (80°C) for 4 hours.*

ADDITIONAL PRODUCT INFORMATION

SAFETY: Use of safety goggles, particle masks, coveralls, and chemical resistant gloves is recommended. Work in a clean, well-organized area with adequate ventilation. Keep uncured product containers tightly closed and away from children at all times. Please read and understand the full safety recommendations as set forth in the Safety Data Sheets (SDS) available on our website.

ENVIRONMENTAL: Neopoxy epoxies are comprised entirely of reactive solids (resin & hardener), which means that there are no solvents or thinners that evaporate during the curing process. Since the curing process binds all reactive components, the cured epoxies are inert, non-leeching, and safe for use on stormwater infrastructure, wastewater infrastructure, or for discharge into a wastewater treatment facility or natural body of water. Prior to mixing the epoxy, the applicant must handle the uncured resin and hardener with care and clean up any spills in accordance with local environmental regulations. For additional information please reference Safety Data Sheets (SDS) available on our website.

SHELF LIFE & STORAGE: Store product in closed container at 40°-80°F. Shelf life is one year from the manufacture date indicated on label.