



Product Data Sheet

PRODUCT DESCRIPTION

70704/70705 is a two-component novolac epoxy resin that is formulated to have superior chemical resistance when exposed to a wide range of acids, alkali and other aggressive chemicals.

PRODUCT NUMBERS AND COLORS

Standard colors: 70704-00 Clear (special order, consult NEOGARD)
70704-02 Gray
70704-05 Red

CURED RESIN PERFORMANCE

Description	Test Method	Results
Compressive Strength	ASTM D695	10,000 psi
Tensile Strength	ASTM D638	8,500 psi
Elongation @ Break	ASTM D638	6%
Flexural Strength	ASTM D790	11,800 psi
Modulus of Elasticity	ASTM D790	134,000 psi
Shore D Hardness	ASTM D2240	84
Adhesion	ASTM D4541	300 psi
Taber Abrasion	ASTM D4060	40 mg/1000(cs17)
Water Resistance	ASTM D570	0.15%
MVT @ 10 mils	ASTM E96	0.15 Perm
Flammability	ASTM D635	Pass

The above tested results are typical values. Individual lots may vary up to 10% from the typical value.

PRODUCT DATA

Description	Test Method	Results
Weight/Gal (mixed)	ASTM D1475	9.7 lbs/gal
Weight Solids (mixed)	ASTM D4209	100%
Volume Solids (mixed)	Calculated	100%
Viscosity (mixed)	ASTM D2196	700 cps
Flash Point	ASTM D3278	>205°F
VOC (mixed)	EPA Method 24	<5 g/L

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Description	Test Method	Results
Shelf Life		1 year
Pot Life @ 70°F		30 minutes
Thin Film Cure @ 75°F		8 to 9 hours
Full Cure for Chemical Resistance @ 75°F		7 days
Mix Ratio 70704:70705		3:2 by volume

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CHEMICAL RESISTANCE

70704/70705 novolac epoxy is formulated to have excellent tolerance of a wide variety of concentrated mineral acids such as Sulfuric Hydrochloric and organic acids such as Acetic acid and Fatty acids. Solvent and caustic resistant. Not resistant to concentrated oxidizing acid such as Nitric or Chromic.

Exposures to combination of chemicals and exposures to chemicals at temperatures above 80°F should be tested under conditions that simulate the actual in-use environment.

APPLICATION

70704/70705 novolac epoxy is used as a chemical resistant coating and/or binder for protection against aggressive chemical attack.

- High gloss, chemical resistant protective coating used thin film systems.
- Clear and pigmented binder for seamless, slip resistant broadcast systems.
- Used as a heavy-duty chemical and abrasion resistant trowel applied mortar flooring system.

HEALTH AND SAFETY

Read the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

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