

Product Data Sheet

70704/70705 — Novolac Epoxy

45020: Base 45029 : Curing Agent 95047



Description: 70704/70705 (Hempel 45020) is a two-component novolac epoxy resin.

Recommended use: As a chemical-resistant coating and/or binder. Applications include: as a high-gloss, chemical-resistant protective coating used in thin film systems; clear and pigmented binder for seamless, slip-resistant broadcast systems; and heavy-duty chemical- and abrasion-resistant, trowel-applied mortar flooring systems.

Features: Excellent tolerance of a variety of concentrated mineral and organic acids, including: sulfuric, hydrochloric, acetic, and various fatty acids. (Full chemical resistance chart available at www.neogard.com.)
Meets U.S.D.A. requirements for incidental food contact.
Meets South Coast Air Quality Management District (SCAQMD) VOC requirements.

Certificates/approvals: LEED: MRc5, IEQc4.2

Availability: Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70704-02 (4502916650)	Gray	
70704-05 (4502957930)	Red	
70704-00 (4502900000)	Clear (special order only)	5-gallon kit
70705 (9504700000)	Clear	

Some standard colors and/or packaging may have extended lead times and/or minimum quantities. Contact Neogard for additional colors.

Physical constants:

Compressive strength	10,000 psi	ASTM D695
Tensile strength	8,500 psi	ASTM D638
Elongation at break	6%	ASTM D638
Flexural strength	11,800 psi	ASTM D790
Modulus of elasticity	134,000 psi	ASTM D790
Shore D	84	ASTM D2240
Adhesion	300 psi	ASTM D4541
Water resistance	0.15%	ASTM D570
MVT at 10 mils	0.15 Perm	ASTM E96
Flammability	Pass	ASTM D635
Taber abrasion	40 mg, 1,000 cycles, CS-17	ASTM D4060
Anti-microbial	Pass	JIS Z 2801-2010
Weight/gallon (mixed)	9.7 lbs/gal	ASTM D1475
Weight solids (mixed)	100%	ASTM D4209
Volume solids (mixed)	100%	Calculated
Viscosity (mixed)	700 cps	ASTM D2196
Flash point	>205°F	ASTM D3278
VOC (mixed)	<5 g/L	EPA Method 24
Shelf life	1 year	
Thin film cure at 75°F (23°C)	8–9 hours	
Full cure for chemical resistance at 75°F (23°C)	7 days	

The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.

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Application details:

Version, mixed product	45020
Mixing ratio:	Base 45029 : Curing Agent 95047 3 : 2 by volume
Mixing instructions:	Pre-mix base for 3–5 minutes before adding curing agent. Mix for a minimum of 5 minutes before applying. Jiffy Mixer paddle recommended.
Application method:	Roller or squeegee
Thinner (max.vol.):	7055 Odorless Reducer (086JB) or HEMPEL'S THINNER 08080 (xylene) (10%)
Pot life:	30 minutes at 70°F (21°C)
Cleaning of tools:	7055 Odorless Reducer (086JB) or HEMPEL'S THINNER 08080 (xylene)
Safety:	Handle with care. Use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.
Surface preparation:	According to Neogard Guide Specifications.
Application conditions:	Ambient temperature must be between 50°F (10°C) and 85°F (29°C), and a minimum of 5°F (3°C) above dew point.
Preceding coat:	According to Neogard Guide Specifications.
Subsequent coat:	According to Neogard Guide Specifications.
Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 70°F (21°C).
Remarks:	Not resistant to concentrated oxidizing acids such as nitric or chromic. Exposures to chemicals or combinations of chemicals at temperatures above 80°F (26°C) should be tested under conditions which simulate the in-use environment.

Note: **70704/70705 is for professional use only.**

Issued by: Hempel (USA) – 45020

This Product Data Sheet supersedes those previously issued.

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