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.

5-gallon kit

Certificates/approvals: LEED: MRc5, IEQc4.2

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)

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 40 mg, 1,000 cycles, CS-17 Taber abrasion **ASTM D4060** Anti-microbial JIS Z 2801-2010 Pass

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/LEPA 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: Must be recoated within 24 hours at 70°F/21°C for subsequent coat to properly bond. If the 24-

hour recoat window is missed, sand to dull finish before applying subsequent coat(s).

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 ("PDS") relates to the supplied product ("Product") and is subject to update from time-to-time. Accordingly, the buyer/applicator should refer to the PDS current as of the time of delivery. In addition to the PDS, the buyer/applicator may receive some or all of the specifications, statements and/or guidelines listed below or available at www.neogard.com (the "Additional Documents"):

No. Document Description

- 1 PDS
- 2 Guide Specification
- 3 Application Manual
- 4 Other Technical Support Information (i.e. summary application tables, troubleshooting guides, maintenance manuals, chemical resistance charts and other technical information)

In the event of a conflict between this PDS and the Additional Documents, the conflict shall be resolved in accordance with the order of priority set forth above. In addition, the buyer/applicator should refer to the relevant Safety Data Sheet current as of the time of delivery and available at www.neogard.com. Buyer/applicator is responsible for determining the suitability of the intended use of the Product, and Neogard disclaims all responsibility for any use, handling and storage of the Product that is not in accordance with the requirements set forth in the relevant PDS and the Additional Documents. The terms and provisions hereof apply to this PDS, the Additional Documents and any other documents supplied by Neogard in respect of the Product. The Product is supplied and all technical assistance is given subject to the General Conditions of Sale of Hempel Products and/or Services available at www.hempel.com. NEOGARD MAKES NO OTHER WARRANTY THAT EXTENDS BEYOND THE WARRANTY REFERENCED THEREIN INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEOGARD WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR CONDITION, OR THAT IN ANY WAY ARISE IN RELATION TO THE PRODUCT. 70704-70705-PDS ksk 10272021.docx

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