

Novolac

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Product Data Sheet

70718/70719 — Flexible Epoxy

25000: Base 25009 : Curing Agent 95048



Description:	70718/70719 (Hempel 25000) is a two-component high solids, flexible, semi-rigid, stress-relieving epoxy hybrid joint filler.
Recommended use:	Applications include: Semi-rigid high strength joint compound; binder for patching spalled concrete to prevent further deterioration of the concrete; topping for high impact resistance..
Features:	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:

70718-02 (2500916650)	Gray	3-gallon kit
70719 (9504800000)	NA	
<i>Some standard colors and/or packaging may have extended lead times and/or minimum quantities. Contact Neogard for additional colors.</i>		

Physical constants:

Tensile strength	2,100 psi	ASTM D412
Elongation at break	90%	ASTM D412
Permanent set	<20%	ASTM D412
Tear resistance	100 pli	ASTM D1004
Water resistance	2% at 7 days	ASTM D471
MVT at 20 mils	0.2 English	ASTM E96
Shore A	95	ASTM D2240
Shore D	47	ASTM D2240
Adhesion	650 psi	ASTM D4541
Flammability	Pass	ASTM D635
Taber abrasion	15 mg/1,000 cycles CS-17	ASTM D4060
Weight/gallon (mixed)	9.05 lbs/gal	ASTM D1475
Weight solids (mixed)	99% at 12 hours	ASTM C1250
Volume solids (mixed)	99%	Calculated
Viscosity (mixed)	11,500 cps	ASTM D2196
Flash point	>250°F/122°C	ASTM D3278
VOC (mixed)	2.3 g/L	EPA Method 24
Shelf life	1 year	
Set time	6 hours	

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.

Application details:

Version, mixed product	25000
Mixing ratio:	Base 25009 : Curing Agent 95048 2 : 1 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
Thinner (max.vol.):	7055 Odorless Reducer (086JB) or Hempel's Thinner 08080 (xylene) (10%)
Pot life:	70 minutes at 75°F/23°C
Cleaning of tools:	7055 Odorless Reducer (086JB) or Hempel's Thinner 08080 (xylene)

Product Data Sheet

70718/70719 — Flexible Epoxy

25000: Base 25009 : Curing Agent 95048



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.

Note: 70718/70719 is for professional use only.

Issued by: Hempel (USA) – 25000

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

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Product Data Sheet

70991 (47XJB) Polyurethane Sealant



Description:	70991 (Hempel 47XJB) is a one-component, contractor/construction grade, smooth polyurethane sealant.
Recommended use:	70991 is used for sealing the following: expansion and control joints in pre-cast concrete panels; various roofing and siding applications; perimeters of doors, windows, and other wall penetrations.
Features:	May be used with most building materials, including stone, masonry, ceramic, marble, wood, steel, aluminum, fiber cement board and many other synthetic materials. Easy gunning; reduces installer's fatigue. Bonds well to most common building materials. Quicker skin and cure time; reduces jobsite dirt pickup.
Service temperatures:	-40°F–150°F (-40°C–66°C)
Certificates/approvals:	Type S, Grade NS, Class 25, Use NT, A and M. US Federal Specification TT-S 00230C (COMB-NBS) for one-component sealants as Class A, non-sag. Canadian Specification CAN/CGSB 19.13-M87. CARB and SCAQMD Compliant. Meets VOC requirements for OTC Regulation.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70991-4 (47XJB1L030)	Gray	10.1-oz cartridge
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Physical constants:

Hardness (Shore A)	42	ASTM D2240
Modulus at 100% Elongation	65 psi	ASTM D412
Modulus at 25% Elongation	45 psi	ASTM D412
Tensile Strength at Break	133 psi	ASTM D412
Elongation at Break	685%	ASTM D412
UV Resistance	Pass	ASTM C793
VOC	43 g/L (2.8%)	Calculated
Adhesion Peel	> 5 piw	TT-S-00230C/ASTM C794
Joint Movement Capability	+25%	TT-S-00230C/ASTM C719

Tool/Work Time	60 minutes
Skin Time	4 hours
Curing Time at 77°F/25°C	2–7 days, 1/16" per day
Flow, Sag or Slump	0.1 inch

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.

Application details:

Application method:	Caulking gun
Cleaning:	Clean tools with an aromatic solvent. Dry-wipe excess uncured sealant from surfaces, then follow with a solvent wipe. Cured sealant is difficult to remove without damaging the substrate.

Safety:	Handle with care. 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.
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Surface preparation:	Surface must be clean, sound, and dry. Do not apply over damp, contaminated, loose surfaces, old sealants, or other foreign substances that may impair adhesion. Pre-test substrates with a sample of 70991 before full application.
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Product Data Sheet

70991 (47XJB) Polyurethane Sealant



Application conditions:

Do not install when the dew point of the substrate is close to ambient temperature, or if moisture-vapor transmission (MVT) is present. Damp substrates with high moisture content will cause bubbling and foaming. Lower relative humidity and temperature will significantly extend curing time. Confined areas, deep joints, and moisture barrier substrates may also affect the full cure time and extend it by many days. High temperature/humidity can cause bubbles to develop during the curing process.

Subsequent coat:

According to Neogard system Guide Specifications. Test paints or coatings for adhesion before general application.

Remarks:

Do not apply to copper substrates. Will cause staining of porous substrates such as marble, limestone, and granite. Not for sealing narrow joints, fillet joints, and face nail holes. Not recommended for smearing and feathering over joints, or by itself joints where abrasion resistance is required (walkways, driveways, runways, etc.). Not for continuous immersion in water or any other fluid, or exterior or interior sealing below the waterline. Not for glazing applications. Bond line strength can be affected by UV rays through the clear material (glass, acrylic glass, polycarbonate). When fully cured, avoid exposure to fuels, or chlorinated, acid, or alkaline solutions. Contact with asphalts and other filler compounds impregnated with oil, asphalt, tar, etc., may deteriorate the cohesive strength of the substrate and ultimately compromise the seal. Lower relative humidity and temperature will significantly extend curing time. Confined areas, deep joints, and moisture barrier substrates may also affect the full cure time and extend it by many days. Exposure to UV/sunlight will alter original color or gloss. Effect is limited to the surface layer and will not compromise the sealing properties if joint dimensions are proper and the sealant is properly applied. Check shelf life prior to use. Do not use past shelf life. Shelf life of polyurethane sealants may be significantly reduced by high temperature and high relative humidity.

Application coverage rates (linear feet per 10.1 fl oz cartridge):

		Width							
		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
Depth	1/8"	99	49	33	24	20	16	14	12
	1/4"	NA	24	20	12	10	8	7	6
	3/8"	NA	NA	11	8	6	5	5	4
	1/2"	NA	NA	NA	6	5	4	3	3

Note:

70991 is for professional use only.

Issued by:

Hempel (USA) – 47XJB

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Product Data Sheet

70714/70715 (45060) – 2K Epoxy

Base 70714 (45069) : Curing Agent 70715 (95073)



Description:	70714/70715 (Hempel 45060) is a two-component, 100% solids epoxy resin.
Recommended use:	Applications include: High-gloss, high-build protective coating; binder for self-smoothing pigmented and color quartz flooring; low-viscosity binder for trowel-applied mortar flooring systems; high-quality primer for chemical resistant urethane top coats, and/or Neogard waterproofing and flooring systems; low-viscosity binder for trowel applied mortar and/or patching material; low viscosity binder for crack injection.
Features:	Formulated for use on damp or dry concrete. Near water-clear. Exhibits no amine blush when used in humid environments. Very low viscosity for deep penetration into concrete. Uniform wetting of filler aggregates. Excellent chemical and water resistance. 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, BDc4, IDc4 MPI: MPI #212
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70714 (4506900000)	Clear and Tintable	15- and 3-gallon kits
70714-01 (4506916640)	White	15- and 3-gallon kits
70714-02 (4506916650)	Gray	15- and 3-gallon kits
70714-03 (4506923820)	Tan	15- and 3-gallon kits
70714-04 (4506916670)	Dark Gray	15- and 3-gallon kits
70714-05 (4506957930)	Tile Red	15- and 3-gallon kits
70714-11 (4506916660)	Light Gray	15- and 3-gallon kits
70714-16 (4506919990)	Black	15- and 3-gallon kits
70714-06 (4506949890)	Green	3-gallon kits
70715 (9507300000)	NA	Curing agent, included in kits

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

Physical constants:

Tensile strength	3,700 psi	ASTM D638
Elongation	25%	ASTM D638
Compressive strength	25,300 psi	ASTM D695
Flexural strength	3,180 psi	ASTM D790
Flexural modulus	57,700 psi	ASTM D790
Water resistance	0.21%	ASTM D570
MVT at 10 mils	0.16	ASTM E96
Taber abrasion	25 mg/1,000 CS-17	ASTM D4060
Shore d	78	ASTM D2240
Adhesion	350 psi	ASTM D4541
Flammability	Pass	ASTM D635
Weight/gallon (mixed)	8.8 lbs/gal	ASTM D1475
Weight solids (mixed)	100%	ASTM D4209
Volume solids (mixed)	100%	Calculated
VOC (mixed)	<10 g/L	EPA Method 24
Flash point	>200°F/93°C	ASTM D3278
Shelf life	1 year	
Thin film cure at 75°F/23°C	8–9 hours	
Full cure at 75°F/23°C	7 days	
Full chemical resistance	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.

Product Data Sheet

70714/70715 (45060) – 2K Epoxy

Base 70714 (45069) : Curing Agent 70715 (95073)



Application details:

Version, mixed product	70714/70715 (45060)
Mixing ratio:	Base 70714 (45069) : Curing Agent 70715 (95073) 2 : 1 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 40°F/4°C and 100°F/37°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.

Note: **70714/70715 is for professional use only.**

Issued by: Hempel (USA) – 45060

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Product Data Sheet

86500 (66XJB) Neogrip Spheres



Description:	86500 Neogrip Spheres (Hempel 66XJB) are glass spheres.
Recommended use:	86500 Neogrip Spheres are used in Neogard flooring systems to provide slip resistance.
Features:	Excellent chemical resistance. Low oil absorption.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

86500 (66XJB99980)	Neutral	50-lb bag
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Physical constants:

Size range	150–250 microns	
U.S. mesh size	60–100	
Bulk density, untapped	91 lbs/cu ft ²	ASTM D3101
Bulk density, tapped	98 lbs/cu ft ²	ASTM D3101
Oil absorption	18 lbs/cu ft ²	ASTM D1483
Specific gravity	2.5	
Refractive index	1.51	
Free iron content, % max	0.1	
Young's modulus, 106 psi	10	
Rigidity modulus, 106 psi	4.3	
Hardness (Moh)	6	
Coefficient of friction	0.9–1.0	
Dielectric constant	6.9, 106 Hz at 72°F/22°C	
Loss tangent	0.0085, 106 Hz at 72°F/22°C	
Volume resistivity	6.5 x 10 ¹² ohm-cm at 77°F/25°C	
Softening point	1,299°F (704°C)	
Expansion coefficient	90 in/in/°C x 10 ⁻⁷	
Thermal conductivity	0.0036 (cal/sec)(cm ²)(°C/cm) at 932°F/500°C	
Composition:		
SiO ₂ *	72.5%	
Na ₂ O	13.7%	
CaO	9.8%	
MgO	3.3%	
Al ₂ O ₃	0.4%	
FeO/Fe ₂ O ₃	0.2%	
K ₂ O	0.1%	
B ₂ O ₃	0%	
Hydrolytic leach resistance:**		
Leachate pH	9.4	
Leach conductivity	101 mmho/cm	
Leach concentrations:		
Total alkali	25.7 mg/cc	
Calcium	18.1 mg/cc	
Boron	Trace	
Silica	5.4 mg/cc	

*No measurable free crystalline silica content as tested by ASTM C169. **One hour boil under reflux with de-ionized water. 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.

Product Data Sheet

86500 (66XJB)
Neogrip Spheres



Application details:

Application method: According to Neogard Guide Specifications.

Safety: Handle with care. Before and during use, observe all safety labels on packaging, consult Neogard Safety Data Sheets and follow all local or national safety regulations.

Note: 86500 is for professional use only.

Issued by: Hempel (USA) – 66XJB

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Product Data Sheet

86364 (66030)

Silica Quartz Sand Flooring Aggregate



Description:	86364 (Hempel 66030) is a silica quartz sand aggregate.
Recommended use:	86364 is used in various Neogard fluid-applied flooring systems.
Features:	Consistent, uniform grain shapes and particle size distribution. Excellent placement and compaction, which lead to excellent mechanical properties. Resists abrasion in high traffic and wear areas. Provides stability for the flooring system.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

86364 (6603009990)	Neutral	50-lb bag
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Physical constants:

Grain shape	Round
Grain size	20-40 mesh
Hardness	≥7.0 Moh's
Moisture content	<0.1%
Specific gravity	2.65 g/cm ³
Bulk density, loose	92 - 95 lbs/ft ³
Bulk density, compacted	98 - 100 lb/ft ³

Sieve Analysis	Percent Retained
20	3.6
30	69.9
40	27.2
50	3.0
Pan	0.2

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.

Application details:

Application method:	According to Neogard Guide Specifications.
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Safety:	Handle with care. 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.
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Storage:	Store in a dry area.
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Product Data Sheet

86364 (66030)

Silica Quartz Sand Flooring Aggregate



Note: **86364 is for professional use only.**

Issued by: Hempel (USA) – 66030

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Product Data Sheet

P1934 (D261) Fumed Silica



Description:	P1934 (Hempel D261) is a synthetic silica powder.
Recommended use:	As a reinforcing filler and thickening agent for Neogard epoxies, in particular to create patching material for repair of concrete substrates.
Availability:	Available in North America. Not included in Group Assortment. Availability subject to confirmation.

Colors and packaging:

P1934 (D261)	White	20-lb bag
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Physical constants:

Loss on drying	< 1.5%	DIN EN ISO 787-2
Sieve residue	< 0.03%	DIN EN ISO 787-18
Tamped density	Approx. 40 g/l	DIN EN ISO 787-11
BET surface	175–225 m ² /g	DIN ISO 9277, DIN 66132

SiO ₂	> 99.8%	DIN EN ISO 3262-19
Density at 68°F/20°C	Approx. 1.27 oz/in ³ 2.2 g/cm ³	DIN 51757
Loss of weight	< 2%	DIN EN ISO 3262-19
Refraction index	1.46	
pH	3.8–4.3	DIN EN ISO 787-9

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.

Safety:	Handle with care. 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. Prevent inhalation. Use respirators and/or filter masks when handling. Beware of static discharge when pouring P1934.
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Storage:	Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C. Protect against humidity.
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Note:	P1934 is for professional use only.
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Issued by:	Hempel (USA) – D261
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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. P1934-PDS ksk 04122021.docx

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2728 Empire Central - Dallas, Texas 75235 - Phone (214) 353-1600 - Fax (214) 357-7532 - www.neogard.com

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.

Product Data Sheet

70704/70705 — Novolac Epoxy

45020: Base 45029 : Curing Agent 95047



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

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