

CG Series

Table of Contents

70718/70719 Epoxy Joint Filler	Product Data Sheet	English	2
70991 Polyurethane Sealant	Product Data Sheet	English	4
70714/70715 Epoxy, High Performance	Product Data Sheet	English	6
70817/70818 Urethane, Chemical Resistant, Clear	Product Data Sheet	English	8
70817-01/70818 Urethane, Chemical Resistant, White	Product Data Sheet	English	10
86500 Neogrip Glass Spheres	Product Data Sheet	English	12
86364 Sand Aggregate, 20-40 Mesh	Product Data Sheet	English	14
P1934 Fumed Silica	Product Data Sheet	English	16
CG Grout	Product Data Sheet	English	17
CG Mortar Aggregate	Product Data Sheet	English	19
40/70 Silica Quartz Aggregate	Product Data Sheet	English	20

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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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)

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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

70817/70818 — High-Solids Chemical Resistant Urethane
57070: Base 57079 : Curing Agent 95059



Description:	70817/70818 (Hempel 57070) is a two-component, ultra-high solids, chemical-resistant aliphatic polyurethane.
Recommended use:	As a topcoat for Neogard decorative flooring and waterproofing systems.
Features:	Meets South Coast Air Quality Management District (SCAQMD) VOC requirements.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70817 (5707900050)	Clear (Tintable)	
70817-01 (5707916640)	White	2-gallon kit (mixed)
70818 (9505900000)	N/A	
Contact Neogard for available colors.		

Physical constants:

	70817/70818	70817-01/70818	
Tensile strength	7,500 psi	5,800 psi	ASTM D2370
Elongation	12%	40%	ASTM D2370
Shore D	70	65	ASTM D2240
Water resistance	<1%, 7 days	<1%, 7 days	ASTM D471
Taber abrasion	23 mg/1,000 cycles CS-17	17 mg/1,000 cycles CS-17	ASTM D4060
Anti-microbial	Pass	Pass	JIS Z 2801-2010
Both versions			
Weight/gallon (mixed)	9.73 lbs/gal	ASTM D1475	
Weight solids (mixed)	92%	ASTM D5201	
Volume solids (mixed)	90%	ASTM D5201	
VOC (mixed)	< 100 g/L	ASTM D5201	
Flash point	70817: 167°F/75°C 70718: 316°F/157°C	ASTM D3278	
Working time at 75°F/23°C, 50% relative humidity	20–25 minutes		
Cure time at 77°F/24°C, 50% relative humidity	10–12 hours		
Recoat at 75°F/23°C, 50% relative humidity	Within 24 hours		
Shelf life	1 year		

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	57070
Mixing ratio:	Base 59079 : Curing Agent 95059 1 : 1 by volume
Mixing instructions:	Pre-mix base for 3 minutes. Add base to curing agent and mix for 3 more minutes. Jiffy Mixer recommended.
Application method:	Roller or squeegee
Application Rate:	140–200 ft ² /gallon
Indicated film thickness, dry:	12–8 mils
Thinner (max.vol.):	7055 Odorless Reducer (086JB) or Hempel's Thinner 08080 (xylene) (10%)
Pot life:	60–80 minutes at 75°F/23°C
Cleaning of tools:	7055 Odorless Reducer (086JB) or Hempel's Thinner 08080 (xylene)

Product Data Sheet

70817/70818 — High-Solids Chemical Resistant Urethane
57070: Base 57079 : Curing Agent 95059



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:	Precondition material for 24 hours at 65°–75°F/18°C–23°C. Ambient temperature must 40°F–80°F/4°C–26°C. Substrate temperature must be 40°F–110°F/4°C–40°C and 5°F/3°C above the dew point. Relative humidity must be 30%–85%; may turn milky if applied in excess of 12 mils per coat or in areas of high humidity (>85%). Surface must be dry, clean, and without frost.
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).
Accelerators and additives:	7986 (994JB00000): Odor mask, synthetic vanilla.
Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C.
Remarks:	Open to foot traffic in 16 hours at 75°F/23°C, 50% relative humidity. Apply additional coats within 24 hours of initial application. If applying additional coats beyond 24 hours, lightly abrade surface with 80–100 grit sand paper and thoroughly clean surface before applying next coat. Do not apply directly to concrete.

Note: 70817/70818 is for professional use only.

Issued by: Hempel (USA) – 57070

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**Product Data Sheet****PRODUCT DESCRIPTION**

70817-01/70818 (Hempel 57079/95059) is a two-component, low VOC, ultra-high solids chemical resistant, white aliphatic polyurethane.

SYSTEM DESIGN

70817-01/70818 is designed for use as a topcoat for NEOGARD® flooring and decorative waterproofing systems.

USES

- As a topcoat for NEOGARD® flooring and decorative waterproofing systems.

ADVANTAGES

- Superior resistance to chemical attack.
- Excellent UV resistance.
- Superb impact and abrasion resistance.
- Excellent anti-microbial resistance.
- USDA acceptable for incidental food contact.
- Meets VOC content requirements for Floor Coatings established by South Coast AQMD.

LIMITATIONS

- Use with adequate ventilation.
- Do not apply to damp, unclean or frosty surfaces.
- Do not apply directly to concrete.
- Precondition material for 24 hours at 65°–75°F (18°C–23°C).
- Do not apply if ambient temperature is less than 50°F (10°C) or greater than 85°F (29°C).
- Ambient temperature must be a minimum of 5°F (3°C) above dew point.
- Cure times, flow/leveling, cured physical properties, and overall appearance will be adversely affected if product is applied outside of these temperature ranges.
- Maximum Relative Humidity: 85%.
- Minimum Relative Humidity: 30%.
- Open to foot traffic in 16 hours at 75°F (23°C), 50% relative humidity.

PRODUCT COLORS AND PACKAGING

Product Numbers: NEOGARD® (Hempel)	Color	Packaging
70817-01 (5707916640)	White	2-gallon kit (mixed)
70818 (9505900000)	N/A	

Contact NEOGARD® for available colors.

APPLICATION INSTRUCTIONS

NEOGARD® products are to be installed in accordance with instructions in the NEOGARD® Flooring Systems Application Manual.

- Thoroughly mix 1:1 by volume. Apply at a rate of 140 to 200 sf/gal to achieve a dry film thickness of 8 to 12 wet mils. Note: Product may turn milky if applied in excess of 12 mils/per coat or in areas of high humidity (>85% RH). Application of less than 8 mils wet film thickness on a smooth system may produce an orange peel texture.
- When applying additional coats, do not exceed 24 hour recoat window. If recoat window is exceeded, lightly abrade surface with 80–100 grit sand paper and thoroughly clean surface before applying next coat.

MIXING AND THINNING

Read product labels and application instructions prior to use. Product must be mixed. This product has been formulated to be applied without the need of thinning. However, application under certain conditions and with certain equipment may be enhanced by thinning. Please note that thinning will increase VOC content of the mixed coating. Always know local VOC restrictions for coating applications in your area before thinning this product. Do not thin material more than 10%. See compatible thinners and additional mixing instructions in the NEOGARD® Flooring Systems Application Manual.

- Pre-mix 70817-01 for 3 minutes. Add entire contents of 70818 container to 70817-01 container and immediately mix for 3 minutes. Mix using a slow-speed drill with a Jiffy Mixer paddle. Take precautions not to introduce air into the material while mixing.

CURED PROPERTIES

Description	Test Method	Results
Tensile Strength	ASTM D2370	5,800 psi
Elongation	ASTM D2370	40%
Shore D	ASTM D2240	65

Description	Test Method	Results
Anti-Microbial	JIS Z 2801-2010	Pass
Water Resistance	ASTM D471	<1%, 7 days
Taber Abrasion, 1,000 cycles CS-17	ASTM D4060	17 mg

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 <http://www.neogard.com>.

PRODUCT DATA

Description	Test Method	Results
Weight/Gallon (mixed)	ASTM D1475	9.95 lbs/gal
Weight Solids (mixed)	ASTM D5201	96%
Volume Solids (mixed)	ASTM D5201	95%
VOC (mixed)	ASTM D5201	<100 g/L
Flash Point	ASTM D3278	70817-01: 204°F (95°C) 70718: 316°F (157°C)
Pot Life at 75°F (23°C), 50% RH		60–80 minutes
Working Time at 75°F (23°C), 50% RH		20–25 minutes
Cure Time at 77°F (24°C), 50% RH		10–12 hours
Recoat at 75°F (23°C), 50% RH		Within 24 hours
Shelf Life		1 year

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.

ADDITIVES

Product No.	Description	Use
7986 (994JB00000)	Odor Mask	Synthetic vanilla used to mask less pleasant odors

STORAGE AND HANDLING

Containers of urethane coating should be stored in a cool (75°F, 23°C) area to ensure full shelf life. Keep container closed. Keep away from sources of ignition. To prevent container rupture due to very high temperature, keep away from heat and/or open flames.

CLEAN UP

Clean tools and equipment with aromatic solvents such as NEOGARD® 7055 Odorless Reducer, HEMPEL'S 08080 Xylene Thinner, toluene, or MEK.

HEALTH AND SAFETY

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

Manufacturer warrants that the physical properties of the product reported above will meet the standards and deviations of the associated ASTM test method. **MANUFACTURER HEREBY EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.** Buyer must make its own determination of the suitability of any product for its use, whether such product is used alone or in combination with other materials. To the extent this or any of Manufacturer's products is proven to be defective, Buyer's sole remedy shall be limited to the replacement of such defective product, exclusive of any costs of labor. MANUFACTURER SHALL NOT BE LIABLE OR OBLIGATED FOR ANY LOSS OR CONSEQUENTIAL OR OTHER DAMAGE INCURRED DIRECTLY OR INDIRECTLY BY BUYER OR ANY OTHER PERSON OR ENTITY THAT ARISES IN ANY WAY IN RELATION TO THIS OR ANY OF MANUFACTURER'S OTHER PRODUCTS. Nothing contained herein shall be construed to constitute inducement or recommendation to practice any invention covered by any patent without authority of the owner of the patent. No Applicator is or should be viewed as an employee or agent of Manufacturer. 70817-01-70818-PDS 57079 ksk 03192018.indd

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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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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)

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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.

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.**

Issued by: Hempel (USA) – D261

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Product Data Sheet

CG Grout (67DUS99980)

Silica Quartz Sand Aggregate



Description:	CG Grout (67DUS99980) is a silica quartz sand aggregate.
Recommended use:	CG Grout is used as a high-build underlayment for leveling or sloping in conjunction with Neogard fluid-applied flooring or waterproofing 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:

67DUS99980	Neutral	40-lb bag
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Physical constants:

Grain shape	Sub Round/ Sub Angular
Grain size	12-200 mesh
Hardness	≥7.0 Mohs
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
16	11.5
20	9.4
30	3.3
40	6.0
50	9.5
70	9.7
100	3.8
140	2.4

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 and mixing:	Primer: Apply 70714/70715 clear epoxy at a rate of 250–300 square feet per gallon. CG Grout can be applied directly over wet or cured primer. Mix 4 parts of CG Grout with 1 part of 70714/70715 clear or pigmented epoxy by volume. Apply by trowel or screed to desired thickness. One 3 gallon kit of mixed 70714/70715 epoxy with 5 bags of CG Grout will cover 25 square feet at 1 inch thick, or 8.3 square feet at 3 inches thick. Note: Maximum depth in one application or lift is 3 inches. Applications or lifts greater than 3 inches can cause blistering or delamination.
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.
Storage:	Store in a dry area.

Product Data Sheet

CG Grout (67DUS99980)

Silica Quartz Sand Aggregate



Note: **CG Grout is for professional use only.**

Issued by: Hempel (USA) – 67DUS99980

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Product Data Sheet

CG Mortar (67CUS99980) Silica Quartz Aggregate



Description:	CG Mortar (67CUS99980) is a silica quartz aggregate blend.
Recommended use:	As a component of the troweled mortar mix in the Neogard CG-250 Trowel flooring system.
Availability:	Available in North America. Not included in Group Assortment. Availability subject to confirmation.

Colors and packaging:

67CUS99980	Neutral	30-lb bag
<i>Some standard colors and/or packaging may have extended lead times and/or minimum quantities.</i>		

Physical constants:

Grain shape:	Sub-round and angular
Grain size:	12-200 mesh
Hardness:	>7.0 Moh's
Specific gravity:	2.65 g/cm ³
Bulk density, loose:	92-95 lbs/ft ³
<i>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.</i>	

Application method:

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.
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Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C.
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Note: **CG Mortar is for professional use only.**

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Product Data Sheet

66UJB99980

40/70 Silica Quartz Aggregate



Description:	66UJB99980 is a blend of select silica quartz sand.
Recommended use:	As an aggregate in various Neogard flooring systems.
Availability:	Available in North America. Not included in Group Assortment. Availability subject to confirmation.

Colors and packaging:

66UJB9980	Neutral	50-lb bag
<i>Some standard colors and/or packaging may have extended lead times and/or minimum quantities.</i>		

Physical constants:

Grain shape:	Sub-round
Grain size:	40/70 mesh
Hardness:	>7.0 Moh's
Specific gravity:	2.65 g/cm ³
Bulk density, loose:	92-95 lbs/ft ³
<i>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.</i>	

Application method:	Refer to Neogard Guide Specifications for application instructions.
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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.
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Storage:	Store in a dry area.
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Note: 66UJB99980 is for professional use only.

Issued by: Hempel (USA) – 67BUS99986

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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)

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