

AutoGard

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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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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

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

70714/70715-09 — 2K General Purpose Epoxy
45062: Base 45069 : Curing Agent 95075



Description:	70714/70715-09 (Hempel 45062) is a two-component, general purpose, 100% solids epoxy resin.
Recommended use:	Applications over concrete include: High strength overlayment; high-strength dustproofers; 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:	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:

70714 (4506900000)	Clear	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
70715-09 (9507500000)	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	2,000 psi	ASTM D638
Elongation	40%	ASTM D638
Compressive strength	15,000 psi	ASTM D695
Flexural strength	1,900 psi	ASTM D790
Flexural modulus	62,000 psi	ASTM D790
Water resistance	0.17%	ASTM D570
MVT at 10 mils	0.18 Perm	ASTM E96
Shore D	77	ASTM D2240
Adhesion	400 psi	ASTM D4541
Impact flexibility	Pass at 120 in/lb	ASTM D6905-03
Flammability	Pass	ASTM D635
Taber abrasion	61 mg/1,000 CS-17	ASTM D4060
Weight/gal (mixed)	8.81 lbs/gal	ASTM D1475
Weight solids (mixed)	100%	ASTM D4209
Volume solids (mixed)	100%	Calculated
Viscosity (mixed)	1,250 cps	ASTM D2196
VOC (mixed)	< 5 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

70714/70715-09 — 2K General Purpose Epoxy
45062: Base 45069 : Curing Agent 95075



Application details:

Version, mixed product	45062
Mixing ratio:	Base 45069 : Curing Agent 95079 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:	25 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.

Note: **70714/70715-09 is for professional use only.**

Issued by: Hempel (USA) – 45062

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Product Data Sheet

7992 (66010)

Silica Quartz Sand Aggregate



Description:	7992 silica (quartz) sand (Hempel 66010) is uniformly graded (16-30 mesh) hard aggregate.
Recommended use:	7992 aggregate is used for skid resistance in Neogard fluid-applied coating systems.
Features:	Hardness of 6.5 or greater on Moh's Hardness Scale.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

7992 (6601009990)	White/Tan	100-lb bags
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Physical constants:

Generic Type	Silica (Quartz) Sand
pH	Neutral (6.9/7.0)
Sphericity	0.62
Roundness	0.68
Melting Point	2,800°F–3,100°F (1,538°C–1,705°C)
Specific Gravity	2.65
<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>	

Sieve #	Percent retained
12	0.0
16	1.5
20	61.8
25	29.8
30	6.0
40	1.8
Pan	0.1

Application details:

Application method:	Broadcast, rate according to Neogard system Guide Specifications.
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

7992 (66010)

Silica Quartz Sand Aggregate



Note: **7992 is for professional use only.**

Issued by: Hempel (USA) – 66010

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Product Data Sheet

7992-U (66EJB)

Silica Quartz Sand Aggregate, 12-20 Mesh



Description:	7992-U silica quartz sand (Hempel 66EJB) is a uniformly graded hard aggregate (12-20 mesh).
Recommended use:	7992-U aggregate is used for skid resistance in Neogard fluid-applied coating systems.
Features:	Hardness of 7 or greater on Moh's Hardness Scale.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

7992-U (66EJB99980)	White/Tan	50-lb bags
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Physical constants:

Grain Shape	Round
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
Packaging	50 lb bags
<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>	

Sieve #	Percent retained
12	0.7
16	69.6
20	28.6
30	1.0
Pan	0.1

Application details:

Application method:	Broadcast, rate according to Neogard system 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

7992-U (66EJB)

Silica Quartz Sand Aggregate, 12-20 Mesh



Note: **7992-U is for professional use only.**

Issued by: Hempel (USA) – 66EJB

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Product Data Sheet

7797/7798 — Urethane Primer

254JB: Base 254J9 : Curing Agent 946JB



Description:	7797/7798 (Hempel 254JB) is a two-component, high solids, low odor urethane primer.
Recommended use:	7797/7798 is applied to surfaces to promote adhesion of standard and fast-cure elastomeric coatings. It may also be applied over existing coatings.
Certificates/approvals:	LEED: BDc4, IDc4 Factory Mutual: Class A
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

7797 (254J900000)	Amber	3-gallon kit
7798 (946JB00000)	Neutral	

Physical constants:

Weight/Gal (mixed)	8.99 lbs/gal	ASTM D1475
Weight Solids (mixed)	91%	ASTM D5201
Volume Solids (mixed)	91%	ASTM D5201
Viscosity (mixed)	160 cps	ASTM D562
VOC (mixed)	0.01 g/L	ASTM D5201
Adhesion to Concrete	500 psi	ASTM D4541
Adhesion to 70613, 70630	Meets requirements	ASTM D903
Adhesion to 7430, FC7510/FC7961, FC7520/FC7962, FC7530/FC7963, FC7540/FC7964	≥400 psi	ASTM D7234

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	254JB
Mixing ratio:	Base 254J9 : Curing Agent 946JB 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, brush, or spray (contact Neogard for spray equipment information)
Recommended application rate:	300–500 sq ft/gallon
Thinner (max.vol.):	Do not thin
Pot life:	30 minutes at 77°F/25°C
Cleaning of tools:	Hempel's Thinner 08080 (xylene)

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. Use with adequate ventilation.
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Surface preparation:	According to Neogard Guide Specifications.
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Application conditions:	Substrate temperature must be ≥40°F/4°C and <110°F/32°C.
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Subsequent coat:	According to Neogard Guide Specifications.
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Storage temperature:	75°F/23°C
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Remarks:	Apply coating within 24 hours of primer application. Not recommended for constant immersion. Not compatible with asphaltic compounds. For on-grade applications, substrates constructed over unvented metal decks or between-slab applications, contact the Neogard Technical Service Department.
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Product Data Sheet

7797/7798 — Urethane Primer

254JB: Base 254J9 : Curing Agent 946JB



Note: **7797/7798 is for professional use only.**

Issued by: Hempel (USA) – 245JB

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No.	Document Description
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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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Product Data Sheet

7780/7781 — Water-Borne Epoxy Primer 280JB: Base 280J9 : Curing Agent 98060



Description:	7780/7781 (Hempel 280JB) primer is a two-component, water-borne epoxy primer.
Recommended use:	7780/7781 is applied to wood and concrete substrates prior to the application of high performance surface-applied coating systems.
Certificates/approvals:	LEED: BDc4, IDc4 Factory Mutual: Class A
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

7780 (280J95L071)	Red	5-gallon kit
7781 (9806000000)	Neutral	

Physical constants:

MVT at 7 mils	0.42 Perms	ASTM E96
Adhesion to concrete	400 psi	ASTM D4541
Adhesion to 7430, 70410, 70420, FC7500/FC7960, FC7510/FC7961, FC7520/FC7962, FC7530/FC7963	>400 psi	ASTM D7234

Weight/gal (density, mixed)	8.9 lbs/gal	ASTM D1475
Weight solids (mixed)	32.4%	ASTM D4209
Volume solids (mixed)	28%	Calculated
Viscosity (mixed)	36 sec, Z1 cup, 77°F/25°C	ASTM D4212
VOC (mixed)	85 g/L	EPA Method 24
Flash point, 7780 & 7781	>230°F/110°C	ASTM D3278

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	280JB
Mixing ratio:	Base 280J9 : Curing Agent 98060 4 : 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 spray (contact Neogard for spray equipment information)
Thinner (max.vol.):	Do not thin
Pot life:	2 hours at 75°F/23°C
Cleaning of tools:	Water

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:	According to Neogard Guide Specifications.
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Application conditions:	Recommended air temperature: ≥50°F/10°C. Recommended relative humidity: 45–75%. Temperature of concrete must be at least 5°F/3°C above the air dew point during coating application and cure time. Avoid application on a damp surface. Do not apply in the late afternoon if moisture condensation can appear during the night.
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Subsequent coat:	According to Neogard Guide Specifications.
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Product Data Sheet

7780/7781 — Water-Borne Epoxy Primer
280JB: Base 280J9 : Curing Agent 98060



Storage temperature: Store above freezing (32°F/0°C). Freezing will cause 7780/7781 to become unusable. Do not ship or store unless protection from freezing is available. Do not apply if conditions will not permit complete cure before rain, dew or freezing temperatures occur.

Remarks: Avoid applying a thick film. Thick film increases cure time, especially at low temperature and high relative humidity, and may blister and crack on a hot concrete surface.

Note: **7780/7781 is for professional use only.**

Issued by: Hempel (USA) – 280JB

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Product Data Sheet

86220 (63BJB)

Tietex T272 Roofing Fabric



Description: 86220 (Hempel 63BJB) Tietex T272 Roofing Fabric is a stitchbonded, 100% polyester reinforcing material.

Recommended use: 86220 is embedded in Neogard fluid-applied materials to reinforce roofing and deck coating systems.

Features: High strength and elongation
Accommodates thermal stress
Conforms to irregular surfaces

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

Colors and packaging:

86220 (63BJB99980)	White	Case, 4 rolls, 6" x 300' (1,200 linear ft/case)
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Physical constants:

Tensile strength (1" Jaws)	WARP 74 lbs, WEFT 45 lbs	ASTM D5034
Elongation at break	WARP 21.3%, WEFT 51.3%	ASTM D5034
Elongation	61 - 63%	ASTM D1682
Ball burst	111 lbs	ASTM D3787
Mullen burst	176.8 lbs	ASTM D3786
Trapezoid (tear strength)	WARP 13.5 lbs, WEFT 24.2 lbs	ASTM D1117
Trapezoid	16.1 lbs	ASTM D1117
Thickness	.018	ASTM D1777
Gauge	18	
CPI	18	
Finished weight	3.41 oz/square yard	

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: Embed 86220 into Neogard fluid-applied coatings, without stretching, and roll or brush to eliminate wrinkles and/or air pockets. Roll or brush another layer of coating over the fabric. Feather edges to completely cover the fabric and provide a smooth transition to of the coating to the surface.

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.

Remarks: For more information on Tietex T272 Roofing Fabric, contact Tietex International, Ltd.:
3010 North Blackstock Road
Spartanburg, SC 29301, USA
Phone: 864-574-0500
Fax: 864-574-9490
tietex.com

Product Data Sheet

86220 (63BJB)

Tietex T272 Roofing Fabric



Note: **86220 is for professional use only.**

Issued by: Hempel (USA) – 63BJB

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Product Data Sheet

86218 (62ZJB)

Eternabond WebSeal Tape



Description:	86218 EternaBond WebSeal Tape (Hempel 62ZJB) is a sealant tape, primarily used in roofing applications.		
Recommended use:	Sealing joints, seams, copings, gutters, skylights, and other areas which require a complete seal.		
Features:	<p>Bonds permanently to a wide range of roofing surfaces, including: EPDM, TPO, CSPE/Hypalon, most PVC, CPE , SBS, APP modifies, asphalt BURs, coal tar BURs, tiles, shingle, and all metal roofs.</p> <p>Also bonds to gypsum board, wood, polyethylene, propylene, polystyrene, fiberglass, brick, concrete, masonry, OSB, and others.</p> <p>Composed of a 100% solids formulation of synthetic resins, thermoplastics, non-curing rubber (non-butyl), and a built in primer, bonded to a woven polyester backing.</p> <p>Extremely flexible, with no memory; conforms to almost any shape without return.</p> <p>Self-sealing; can be cut and folded around objects.</p> <p>Silicone release liner protects the tape roll from contamination.</p>		
Service temperatures:	-70°F– >200°F/-56°C – >93°C		
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.		
Colors and packaging:			
86218 (62ZJB99980)	Gray	Case, 4 rolls, 6" x 50' (200 linear ft/case)	
	Contact Neogard for additional widths.		
Physical constants:			
Adhesion	19 lbs/in width		
Water vapor test	.005 grms/100" sq./24hrs/100°F		
Permanence	.001 perms maximum	ASTM E96B	
Low temperature flexibility	1/2" radius at -30°F (-34°C)		
Elongation	>500%		
Pliability	No cracks in membrane		
Total thickness	30 mils (1 mm)		
Shelf life	Up to 5 years		
	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:	Removing silicone release liner gradually to prevent contamination of the adhesive prior to application. Rub or roll with pressure using your hand or steel roller to activate bonding process. Apply a topcoat of roofing material for UV protection.		
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.		
Surface preparation:	Surface must be clean and dry; free of loose rust and scale, dust, talc, and dirt. Oil, grease, and other contaminants should be removed with a suitable solvent/cleaner. For older plastic roofs, score surface with sand cloth and wipe away dust.		
Application conditions:	Temperature: -20°F–150°F/-28°C–65°C ambient.		
Remarks:	For more information on EternaBond WebSeal, please contact EternaBond, Inc.: Phone: 888-336-2663 Fax: 847-837-9449 Web: www.eternabond.com		

Product Data Sheet

86218 (62ZJB)

Eternabond WebSeal Tape



Note: **86218 is for professional use only.**

Issued by: Hempel (USA) – 62ZJB

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PART 1 GENERAL

1.1 SUMMARY

- A. Provide labor, materials, equipment and supervision necessary to install a fluid-applied vehicular traffic coating system as outlined in this specification to new or existing concrete surfaces.
- B. The manufacturer's application instructions for each product used are considered part of this specification and should be followed at all times.
- C. Related Sections:
 - 1. Section 03 30 00: Cast-in-Place Concrete
 - 2. Section 03 40 00: Precast Concrete
 - 3. Section 07 90 00: Joint Protection

1.2 SYSTEM DESCRIPTION

- A. Auto-Gard shall be a complete system of compatible materials supplied by Neogard to create a seamless waterproof membrane with integral wearing surface.
- B. Auto-Gard shall be designated for application on the specific type of deck indicated on the drawings.

1.3 SUBMITTALS

- A. Technical Data: Submit manufacturer's product data and Safety Data Sheets (SDS) on each product.
- B. Samples: Submit samples of specified vehicular traffic coating system. Samples shall be construed as examples of finished color and texture of the system only.
- C. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the specified vehicular traffic coating system.
- D. Warranty: Submit copy of manufacturer's standard warranty.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: Auto-Gard, as supplied by Neogard, is approved for use on this project.
- B. Applicator Qualifications: Applicator shall be approved to install specified system.
- C. Requirement of Regulatory Agencies: Comply with applicable codes, regulations, ordinances and laws regarding use and application of coating systems.
- D. Field Sample:
 - 1. Install a field sample of at least 100 square feet at the project site or pre-selected area as agreed to by owner's representative, applicator and manufacturer.
 - 2. Apply material in accordance with manufacturer's written application instructions.
 - 3. Field sample will be standard for judging color and texture on remainder of project.
 - 4. Maintain field sample during construction for workmanship comparison.
 - 5. Do not alter, move, or destroy field sample until work is completed and approved by Owner's representative.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Materials shall be delivered in original sealed containers, clearly marked with supplier's name, brand name and type of material.

- B. Storage and Handling: Recommended material storage temperature is 75°F/23°C. Handle products to prevent damage to container. All materials shall be stored in compliance with local fire and safety requirements. Do not store at high temperatures or in direct sunlight.

1.6 PROJECT CONDITIONS

- A. Prior to starting work, read and follow the SDS and container labels for detailed health and safety information.
- B. Only proceed with application of materials when substrate temperature is 40°F/4°C or greater. Do not proceed if precipitation is imminent. Only apply to dry, clean surfaces; do not apply to damp, dirty, or frosty surfaces. Ambient temperature should be a minimum 40°F/4°C and rising, and more than 5°F/3°C above dew point. Take special precautions when ambient and/or substrate temperatures are approaching, at, or above 100°F/38°C; it may be necessary to limit material application to evening hours for exterior exposed decks.
- C. Coordinate waterproofing work with other trades. Applicator shall have sole right of access to the specified area for the time needed to complete the application and allow the vehicular traffic coatings to cure adequately.
- D. Protect plants, vegetation or other surfaces not to be coated against damage or soiling.
- E. Keep products away from spark or flame. Do use equipment which may produce sparks during application and until all vapors have dissipated. Post "No Smoking" signs.
- F. Maintain work area in a neat and orderly condition, removing empty containers, rags and trash daily from the site.

1.7 WARRANTY

- A. Upon request, Neogard shall offer a manufacturer's standard warranty for institutional, commercial, industrial, and high-rise/multi-family residential projects only, after substantial completion of the application and receipt of a properly executed warranty request form.

PART 2 MATERIALS

2.1 MANUFACTURER

- A. Neogard, a part of Hempel, 2728 Empire Central, Dallas, TX 75235, (800) 321-6588, www.neogard.com.

2.2 MATERIALS

- A. Auto-Gard materials (Hempel product numbers in parentheses):
 - 1. Primer: Concrete and metal primers as required by Neogard.
 - 2. Flashing Tape: 86218 (62ZJB) flashing tape.
 - 3. Reinforcing Fabric: 86220 (63BJB) reinforcing fabric (Tietex T-272).
 - 4. Sealant: 70991 (47XJB) urethane sealant.
 - 5. Aggregate: 7992 (66010) silica quartz sand.
 - 6. Base Coat: 70410 (45010) urethane coating.
 - 7. Wear Coat: 7430 (57040) series urethane coating.
 - 8. Topcoat: 7430 (57040) series urethane coating.

2.3 MATERIAL PERFORMANCE CRITERIA

- A. Typical physical properties of cured 70410 urethane used on this project are:
 - 1. Tensile Strength, ASTM D412, 1,200 psi
 - 2. Elongation, ASTM D412, 400%
 - 3. Permanent Set, ASTM D412, < 10%
 - 4. Tear Resistance, ASTM D1004, 100 pli
 - 5. Shore A, ASTM D2240, 70–75

6. Adhesion, ASTM D4541, 300 psi
 7. Water Resistance, ASTM D471, < 3% @ (7 days)
 8. Taber Abrasion, ASTM D4060, 30 mg (1,000 CS-17)
- B. Typical physical properties of cured 7430 series urethane used on this project are:
1. Tensile Strength, ASTM D412, 2,500 psi
 2. Elongation, ASTM D412, 400%
 3. Permanent Set, ASTM D412, < 30%
 4. Tear Resistance, ASTM D1004, 200 pli
 5. Shore A, ASTM D2240, 75–80
 6. Adhesion, ASTM D4541, 300 psi
 7. Water Resistance, ASTM D471, < 3% (7 days)
 8. Taber Abrasion, ASTM D4060, 25 mg (1,000 CS-17)
- C. Auto-Gard exceeds requirements for ASTM C957, "Standard Specifications for High Solids Content, Cold-Applied Elastomeric Waterproofing Membrane with Integral Wearing Surface."
- D. Auto-Gard meets Class A requirements for ASTM E108, "Standard Test Methods for Fire Tests of Roof Coverings."
- E. 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.

2.4 ACCESSORIES

- A. Miscellaneous materials such as cleaning agents, adhesives, reinforcing fabric, backer rod, deck drains, and others shall be compatible with the specified vehicular traffic coating system.

2.5 MIXING

- A. Comply with manufacturer's instructions for mixing procedures.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Concrete: Verify that the work done under other sections meets the following requirements:
1. That the concrete deck surface is free of ridges and sharp projections. If metal forms or decks are used they should be ventilated to permit adequate drying of concrete.
 2. That the concrete was cured for a minimum of 28 days. (Minimum of 4,000 psi compressive strength). Water-cured treatment of concrete is preferred. The use of concrete curing agents, if any, shall be of the sodium silicate base only; others require written approval by Neogard.
 3. That the concrete was finished by a power or hand steel trowel followed by soft hair broom to obtain light texture or "sidewalk" finish.
 4. That damaged areas of the concrete deck be restored to match adjacent areas. Use 70714/70715-09 (45062) clear 100% solids epoxy and sand for filling and leveling.

3.2 PREPARATION

- A. Cleaning: Surfaces contaminated with oil or grease shall be vigorously scrubbed with a stiff bristle broom and a strong non-sudsing detergent such as Neogard 8500 BioDegradable Cleaner (089JB). Thoroughly wash, clean, and dry. Areas where oil or other contaminants penetrate deep into the concrete may require removal by mechanical methods.
- B. Shot-Blasting: Required surface preparation method for remedial construction is also the preferred method for new construction. Mechanically prepare surface by shot-blasting to industry standard surface texture (ICRI's CSP3–CSP4) without causing additional surface defects in substrate. Shot-blasting does not remove deep penetrating oils, grease, tar or asphalt stains. Proper cleaning procedures should be followed to ensure proper bonding of the deck coating.

- C. Acid Etching: If shot blasting is not practical, treat concrete surfaces with 10% to 15% solution of muriatic acid to remove laitance and impurities. After acid has stopped foaming or boiling, immediately rinse thoroughly with water. Re-rinse as required to remove muriatic acid solution. Acid etching does not remove deep penetrating oils, grease, tar or asphalt stains. Proper cleaning procedures should be followed to ensure proper bonding of the deck coating.
- D. Cracks and Cold Joints: Visible hairline cracks (less than 1/16" in width) in concrete and cold joints shall be cleaned, primed as required and treated with thoroughly mixed 70410 base coat material a minimum distance of 2" on each side of crack to yield a total thickness of 30 dry mils. Large cracks (greater than 1/16" in width) shall be routed and sealed with 70991 sealant. Sealant shall be applied to inside area of crack only, not applied to deck surface. Detail sealed cracks with thoroughly mixed 70410 base coat material a distance of 2" on each side of crack to yield a total thickness of 30 dry mils.
- E. Control Joints: Seal control joints equal to or less than 1" in width with 70991 urethane sealant. Depending on the width to depth ratio of the joint, backing material and a bond breaker may be required. Install sealants in accordance with ASTM C 1193 and manufacturer's instructions. Detail sealed joints with thoroughly mixed 70410 base coat material a distance of 2" on each side of joint to yield a total thickness of 30 dry mils.
- F. Flashing Tape: Install 86218 flashing tape and 86220 reinforcing fabric where indicated on the drawings and/or where required by the manufacturer prior to the application of base coat.
- G. Surface Condition: Surface shall be clean and dry prior to coating.

3.3 APPLICATION

- A. Factors That Affect Dry Film Thickness: Volume of solids, thinning, surface profile, application technique and equipment, overspray, squeegee, brush and roller wet out, container residue, spills and other waste are among the many factors that affect the amount of wet coating required to yield proper dry film thickness. To ensure that specified dry film thickness is achieved, use a wet mil gauge to verify actual thickness of wet coating applied, adjusting as needed for those factors which directly affect the dry film build.
- B. Seed and Lock Method:
 - 1. Primer: Where required, thoroughly mix primer and apply at a rate of 300 sf/gal (0.33 gal/100 sf) to all concrete surfaces. Within 24 hours of application of primer, base coat must be applied. If base coat cannot be applied within 24 hours, inspect surface for contaminants, clean surface as necessary, and re-prime.
 - 2. Base Coat: Thoroughly mix 70410 base coat material and apply at a rate of 60 sf/gal (1.66 gal/100 sf or 26 wet mils), to yield 20 dry mils. Extend base coat over cracks and control joints which have received detail treatment.
 - 3. Wear Coat: Thoroughly mix 7430 series wear coat material and apply at a rate of 150 sf/gal (0.66 gal/100 sf or 10 wet mils) to yield 8 dry mils, and immediately broadcast aggregate, evenly distributed, into wet coating at the rate of 15 lbs/100 sf. When dry, remove excess aggregate.
 - 4. Heavy Duty Areas Only: For heavy traffic areas such as ticket booths, spiral ramps, turn areas, or in other areas subjected to high traffic abrasion, heavy duty application is required. In such areas, thoroughly mix 7430 wear coat material and apply a second wear coat at a rate of 100 sf/gal (1.0 gal/100 sf or 16 wet mils) to yield 12 dry mils, and immediately broadcast additional aggregate, evenly distributed, into wet coating at a rate of 10 lbs/100 sf. When dry, remove excess aggregate.
 - 5. Topcoat: Thoroughly mix 7430 topcoat material and apply at a rate of 100 sf/gal (1.0 gal/100 sf or 16 wet mils) to yield 12 dry mils.
 - 6. Standard system coating thickness is 40 dry mils exclusive of primer and aggregate. Heavy duty application areas will yield 52 dry mils exclusive of primer and aggregate.
- C. Seed and Backroll Method:
 - 1. Primer: Where required, thoroughly mix primer and apply at a rate of 300 sf/gal (0.33 gal/100 sf) to all concrete surfaces. Within 24 hours of application of primer, base coat must be applied. If base coat cannot be applied within 24 hours, inspect surface for contaminants, clean surface as necessary, and re-prime.

Guide Specification

Auto-Gard

Section 07 18 16 Vehicular Traffic Coatings

2. Base Coat: Thoroughly mix 70410 base coat material and apply at a rate of 60 sf/gal (1.66 gal/100 sf or 26 wet mils), to yield 20 dry mils. Extend base coat over cracks and control joints which have received detail treatment.
 3. Wear Coat (Heavy Duty Areas Only): For heavy traffic areas such as ticket booths, spiral ramps, turn areas, or in other areas subjected to high traffic abrasion, heavy duty application is required. In such areas, thoroughly mix 7430 series wear coat material and apply at a rate of 100 sf/gal (1.0 gal/100sf or 16 wet mils) to yield 12 dry mils, and immediately broadcast aggregate, evenly distributed, into wet coating at the rate of 10 lbs/100 sf. When dry, remove excess aggregate.
 4. Topcoat: Thoroughly mix 7430 topcoat material and apply at a rate of 60 sf/gal (1.66 gal/100 sf or 26 wet mils) to yield 20 dry mils. Immediately broadcast aggregate, evenly distributed, into wet coating at a rate of approximately 15 lbs/100 sf and backroll to encapsulate aggregate.
 5. Standard system coating thickness is 40 dry mils exclusive of primer and aggregate. Heavy duty application areas will yield 52 dry mils exclusive of primer and aggregate.
- D. Applicator is responsible for applying sufficient coating to the substrate.

3.4 CLEANING

- A. Remove debris resulting from completion of coating operation from the project site.
- B. Refer to the Neogard Vehicular Deck Coating Systems Maintenance Manual for typical cleaning methods.

3.5 PROTECTION

- A. After completion of application, do not allow traffic on coated surfaces for a period of at least 72 hours at 75°F/23°C and 50% relative humidity, or until completely cured.

END OF SECTION

Issued by: Hempel (USA) – Neogard Auto-Gard

This Guide Specification ("Guide Spec") relates to the supplied products/system ("System") and is subject to update from time-to-time. Accordingly, the buyer/applicator should refer to the Guide Spec current as of the time of delivery. In addition to the Guide Spec, 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 Guide Spec 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 Sheets current as of the time of delivery of the System and available at www.neogard.com. Buyer/applicator is responsible for determining the suitability of the intended use of the System, and Neogard disclaims all responsibility for any use, handling and storage of any components of the System that are not in accordance with the requirements set forth in the relevant PDS(s), this Guide Spec and the Additional Documents. The terms and provisions hereof apply to this Guide Spec, the Additional Documents and any other documents supplied by Neogard in respect of the System. The System 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 SYSTEM.

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Product Data Sheet

7760/7761 — Epoxy Primer

25100: Base 25109 : Curing Agent 95054



Description:	7760/7761 (Hempel 25100) is a two-component epoxy polyamide primer.
Recommended use:	7760/7761 is applied on wood, concrete, and metal surfaces prior to application of surface-applied waterproofing systems.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

7760 (2510957930)	Red	5- and 1-gallon
7761 (9505400000)	Neutral	

Physical constants:

Weight/Gal (mixed)	8.5 lbs/gal	ASTM D1475
Weight Solids (mixed)	66%	ASTM D4209
Volume Solids (mixed)	59%	Calculated
Viscosity (mixed)	60 KU	ASTM D562
VOC (mixed)	336 g/L	EPA Method 24
Flash Point - 7760	58°F/15°C	ASTM D3278
Flash Point - 7761	45°F/8°C	ASTM D3278
Adhesion (mixed)	300 psi	ASTM D4541

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	25100
Mixing ratio:	Base 25109 : Curing Agent 95054 1 : 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 spray (contact Neogard for spray equipment information)
Thinner (max.vol.):	Hempel's Thinner 08080 (xylene) (10%)
Pot life:	3–4 hours at 75°F/23°C
Recoat time:	90 minutes at 75°F/23°C, 50% relative humidity
Cleaning of tools:	Hempel's Thinner 08080 (xylene)

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:	According to Neogard Guide Specifications.
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Application conditions:	According to Neogard Guide Specifications.
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Subsequent coat:	According to Neogard Guide Specifications.
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Product Data Sheet

7760/7761 — Epoxy Primer

25100: Base 25109 : Curing Agent 95054



Note: **7760/7761 is for professional use only.**

Issued by: Hempel (USA) – 25100

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
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Product Data Sheet

70410 (45010)

Aromatic Urethane



Description:	70410 (Hempel 45010) is a single-component, moisture-cured aromatic urethane.
Recommended use:	As a base coat for Neogard Auto-Gard and Peda-Gard traffic coating systems. Suitable areas include parking garages, stadiums, balconies, plaza decks, walkways, and rooftop recreation areas.
Certificates/approvals:	LEED: MRc5 UL: TGFU.R6034 Miami-Dade: NOA No.: 15-0421.01
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70410 (4501016650)	Gray	55- and 5-gallon
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Physical constants:

Tensile strength	1,200 psi	ASTM D412
Elongation	400%	ASTM D412
Permanent set	<10%	ASTM D412
Tear resistance	100 pli	ASTM D1004
Water resistance	<3%	ASTM D471
MVT at 20 mils	2.6 English Perm	ASTM E96
Taber abrasion	30 mg/1,000 CS-17	ASTM D4060
Shore A	70–75	ASTM D2240
Adhesion	300 psi	ASTM D4541
Weight/gallon	10.7 lbs/gal	ASTM D1475
Weight solids	84%	ASTM D4209
Volume solids	75%	Calculated
VOC	190 g/L	EPA Method 24
Viscosity	87 KU	ASTM D562
Flash point	102°F/38°C	ASTM D3278
Fire resistance (spread of flame)	Class A (as part of a system)	ASTM E108/UL 790
Cure to recoat, 75°F/23°C, 50% relative humidity	14 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:

Application method:	Roller or squeegee
Thinner (max.vol.):	Hempel's Thinner 08080 (xylene) (10%)
Mixing:	Mix for 3–5 minutes before applying; Jiffy Mixer paddle recommended
Cleaning of tools:	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.
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Application conditions:	Substrate temperature must be between 40°F/4°C and 110°F/32°C.
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Preceding coat:	According to Neogard Guide Specifications.
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Subsequent coat:	According to Neogard Guide Specifications.
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Product Data Sheet

70410 (45010)

Aromatic Urethane



Accelerators and additives:

7986 (994JB00000): Odor mask, synthetic vanilla scent.
7987 (995JB00000): Odor mask, orange scent.
7922 (990JB00000): Enhances sag resistance.
7923 (9505300000): Accelerator for single component urethanes.

Storage temperature:

Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C.

Remarks:

Not recommended for constant immersion. Do not apply over asphaltic compounds. For on-grade applications, substrates constructed over unvented metal decks or between-slab applications, contact Neogard Technical Service.

Note: **70410 is for professional use only.**

Issued by: Hempel (USA) – 45010

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Product Data Sheet

7430 (57040)

Aromatic Urethane



Description:	7430 series (Hempel 57040) is a single-component, moisture-cured aromatic urethane.
Recommended use:	As a waterproofing membrane for pedestrian and vehicular traffic-bearing surfaces. Suitable areas include parking garages, stadiums, balconies, plaza decks, walkways, and rooftop recreation areas.
Certificates/approvals:	LEED: MRc5 UL: TGFU.R6034 Miami-Dade: NOA No.: 15-0421.01, NOA No. 15-0616.03
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

7427 (5704016680)	Charcoal Gray	55- and 5-gallon
7430 (5704016650)	Gray	55- and 5-gallon
7430-28 (5704016640)	White	5-gallon
7430-58 (5704061300)	Dark Maple	5-gallon
7435 (5704023820)	Tan	5-gallon

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

Physical constants:

Tensile strength	2,500 psi	ASTM D412
Elongation	400%	ASTM D412
Permanent set	<30%	ASTM D412
Tear resistance	200 pli	ASTM D1004
Water resistance	<3%	ASTM D471
MVT at 30 mils	1.3 English Perm	ASTM E96
Taber abrasion	25 mg/1,000 CS-17	ASTM D4060
Shore A	75–80	ASTM D2240
Adhesion	300 psi	ASTM D4541
Weight/gallon	10.3 lbs/gal	ASTM D1475
Weight solids	92%	ASTM D4209
Volume solids	76%	Calculated
VOC	212 g/L	EPA Method 24
Viscosity	87 KU	ASTM D562
Flash point	113°F/45°C	ASTM D3278
Shelf life	1 year	
SRI value	7430-28: 93 7430-11: 43	ASTM E1980-01 ASTM E108/UL 790
Fire resistance (spread of flame)	Class A (as part of a system)	
Cure to recoat at 75°F (23°C), 50% relative humidity	8–12 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:

Application method:	Roller or squeegee
Thinner (max.vol.):	Hempel's Thinner 08080 (xylene) (10%)
Mixing:	Mix for 3–5 minutes before applying; Jiffy Mixer paddle recommended
Pot life:	NA for single-component, unaccelerated urethane
Cleaning of tools:	Hempel's Thinner 08080 (xylene)

Product Data Sheet

7430 (57040)

Aromatic Urethane



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.
Application conditions:	Substrate temperature must be between 40°F/4°C and 110°F/32°C.
Preceding coat:	According to Neogard Guide Specifications.
Accelerators and additives:	7986 (994JB00000): Odor mask, synthetic vanilla. 7922 (990JB00000): Vertical additive, enhances sag resistance. 7923 (9505300000): Accelerator for single component urethanes. 7925 (991JB00000): Fast-set additive. 7931 (9905500000): Fast accelerator for use in low humidity environments.
Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C.
Remarks:	Product may yellow or discolor when exposed to UV light. Not recommended for constant immersion. Do not apply over asphaltic compounds. For on-grade applications, substrates constructed over unvented metal decks or between-slab applications, contact Neogard Technical Service.

Note: 7430 is for professional use only.

Issued by: Hempel (USA) – 57040

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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

70410-CA (45011)

Aromatic Urethane, SCAQMD-Compliant



Description:	70410-CA (Hempel 45011) is a single-component, moisture-cured aromatic urethane.
Recommended use:	As a base coat for Neogard Auto-Gard and Peda-Gard traffic coating systems. Suitable areas include parking garages, stadiums, balconies, plaza decks, walkways, and rooftop recreation areas.
Features:	Meets South Coast Air Quality Management District (SCAQMD) VOC requirements.
Certificates/approvals:	LEED: MRc4, MRc5, IEQc4.2 UL: TGFU.R6034 City of Los Angeles: RR# 25702
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70410-CA (4501116650)	Gray	55- and 5-gallon
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Physical constants:

Tensile strength	1,200 psi	ASTM D412
Elongation	400%	ASTM D412
Permanent set	<10%	ASTM D412
Tear resistance	100 pli	ASTM D1004
Water resistance	<3%	ASTM D471
MVT at 20 mils	2.6 English Perm	ASTM E96
Taber abrasion	30 mg/1,000 CS-17	ASTM D4060
Shore A	70–75	ASTM D2240
Adhesion	300 psi	ASTM D4541
Weight/gallon	11.1 lbs/gal	ASTM D1475
Weight solids	84%	ASTM D4209
Volume solids	78%	Calculated
VOC	98 g/L	EPA Method 24
Viscosity	87 KU	ASTM D562
Flash point	95°F/35°C	ASTM D3278
Fire resistance (spread of flame)	Class A (as part of a system)	ASTM E108/UL 790

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:	Roller or squeegee
Thinner (max.vol.):	Acetone (10%)
Mixing:	Mix for 3–5 minutes before applying; Jiffy Mixer paddle recommended
Cleaning of tools:	Acetone

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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Surface preparation:	According to Neogard Guide Specifications.
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Application conditions:	Substrate temperature must be between 40°F/4°C and 110°F/32°C.
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Preceding coat:	According to Neogard Guide Specifications.
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Subsequent coat:	According to Neogard Guide Specifications.
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Product Data Sheet

70410-CA (45011)

Aromatic Urethane, SCAQMD-Compliant



Accelerators and additives:
7986 (994JB00000): Odor mask, synthetic vanilla scent.
7922 (990JB00000): Enhances sag resistance.
7923 (9505300000): Accelerator for single component urethanes.

Storage temperature: Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C.

Remarks: Not intended as a topcoat. Not recommended for constant immersion. Do not apply over asphaltic compounds. For on-grade applications, substrates constructed over unvented metal decks or between-slab applications, contact Neogard Technical Service.

Note: 70410-CA is for professional use only.

Issued by: Hempel (USA) – 45011

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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

7430-CA (57041)

Aromatic Urethane, SCAQMD-Compliant



Description:	7430-CA (Hempel 57041) is a single-component, moisture-cured aromatic urethane.
Recommended use:	As a waterproofing membrane for pedestrian and vehicular traffic-bearing surfaces, including: Parking garages, stadiums, balconies, plaza decks, pedestrian walkways, and rooftop recreational areas.
Features:	Meets South Coast Air Quality Management District (SCAQMD) VOC requirements.
Certificates/approvals:	LEED: MRc5, IEQc4.2 (7430-CA) UL: TGFU.R6034 City of Los Angeles: RR# 25702
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

7427-CA (5704116680)	Charcoal Gray	55- and 5-gallon
7430-CA (5704116650)	Gray	55- and 5-gallon
7435-CA (5704123820)	Tan	55- and 5-gallon
<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	2,500 psi	ASTM D412
Elongation	400%	ASTM D412
Permanent set	<30%	ASTM D412
Tear resistance	200 pli	ASTM D1004
Water resistance	<3%	ASTM D471
MVT at 30 mils	1.3 English perms	ASTM E96
Taber abrasion	25 mg/1,000 CS-17	ASTM D4060
Shore A	75–80	ASTM D2240
Adhesion	300 psi	ASTM D4541
Weight/gal	10.7 lbs/gal	ASTM D1475
Weight solids	80%	ASTM D4209
Volume solids	76%	Calculated
VOC	97 g/L	EPA Method 24
Viscosity	87 KU	ASTM D562
Flash point	101°F/38°C	ASTM D3278
Fire resistance (spread of flame)	Class A (as part of a system)	ASTM E108/UL 790
Shelf life	1 year	
Cure to recoat at 75°F/23°C, 50% RH, with 7923 accelerator	18 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:

Application method:	Roller or squeegee
Thinner (max.vol.):	Acetone (10%)
Mixing:	Mix for 3–5 minutes before applying; Jiffy Mixer paddle recommended
Pot life:	NA for single-component, unaccelerated urethane
Cleaning of tools:	Acetone

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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Product Data Sheet

7430-CA (57041)

Aromatic Urethane, SCAQMD-Compliant



Application conditions:	Substrate temperature must be between 40°F/4°C and 110°F/32°C.
Preceding coat:	According to Neogard Guide Specifications.
Accelerators and additives:	7986 (994JB00000): Odor mask, synthetic vanilla. 7922 (990JB00000): Vertical additive, enhances sag resistance. 7923 (9505300000): Accelerator for single component urethanes.
Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C.
Remarks:	Product may yellow or discolor when exposed to UV light. Not recommended for constant immersion. Do not apply over asphaltic compounds. For on-grade applications, substrates constructed over unvented metal decks or between-slab applications, contact Neogard Technical Service.

Note: 7430-CA is for professional use only.

Issued by: Hempel (USA) – 57041

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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)

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.

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Product Data Sheet

70714/70715-01 — 2K Fast-Cure Epoxy 45061: Base 45069 : Curing Agent 95074



Description:	70714/70715-01 (Hempel 45061) 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 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:

70714 (4506900000)	Clear	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
70715-01 (9507400000)	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	3,069 psi	ASTM D790
Flexural modulus	54,000 psi	ASTM D790
Water resistance	0.21%	ASTM D570
MVT at 10 mils	0.16	ASTM E96
Flammability	Passes	ASTM D635
Taber abrasion	78 mg/1,000 CS-17	ASTM D4060
Shore D	77	ASTM D2240
Adhesion	350 psi	ASTM D4541
Flammability	Pass	ASTM D635
Weight/gal (mixed)	8.79 lbs/gal	ASTM D1475
Weight solids (mixed)	100%	ASTM D4209
Volume solids (mixed)	100%	Calculated
Viscosity (mixed)	400 cps	ASTM D2196
VOC (mixed)	<5 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	2–3 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

70714/70715-01 — 2K Fast-Cure Epoxy
45061: Base 45069 : Curing Agent 95074



Application details:

Version, mixed product	45061
Mixing ratio:	Base 45069 : Curing Agent 95074 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:	15 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.

Note: **70714/70715-01 is for professional use only.**

Issued by: Hempel (USA) – 45061

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. 70714-70715-01-PDS ksk 10272021.docx

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