Low Solids Silicone

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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.

Surface preparation: According to Neogard Guide Specifications.

Application conditions: Substrate temperature must be ≥40°F/4°C and <110°F/32°C.

Subsequent coat: According to Neogard Guide Specifications.

Storage temperature: 75°F/23°C

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.

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

Issued by: Hempel (USA) – 245JB

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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)

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

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

Issued by: Hempel (USA) – 63BJB

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Product Data Sheet

8500 (089JB)
BioDegradable Cleaner

Description:
8500 BioDegradable Cleaner (BDC, Hempel 089JB) is a water-soluble cleaning concentrate designed to clean a wide variety of construction surfaces.

Recommended use:
Cleaning of construction surfaces prior to coating, and cleaning of applied coatings.
BDC can clean decks, roofs, floors, and walls prior to coating. BDC can clean aged acrylic, epoxy, polyurethane, and silicone coatings on decks, walls, and floors (all coatings must have a minimum 30-day cure). It can clean uncoated surfaces like concrete, masonry, and metal.

Features:
Non-toxic
Bio-based
Environmentally friendly

Certificates/approvals:
U.S. EPA DfE: 8500 is manufactured from materials recognized by the U.S. Environmental Protection Agency in their Design for the Environment (DfE) program.

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

Colors and packaging:

8500 (089JB00000)	Light Amber (concentrate); Clear (diluted)	5-gallon pail

Physical constants:

pH:	8.7 (concentrate); Neutral (Runoff)
Bio-Based Content:	>65%

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:

Standard cleaning:

1. Dilute the BDC concentrate with 10 parts water to 1 part cleaner.
2. Apply the diluted cleaning solution to the substrate at a rate of approximately 450 square feet per gallon. Allow the solution to stand for 15 minutes. Do not allow the solution to dry. Areas with heavy dirt build up may require additional solution as well as scrubbing with a stiff-bristled broom.
3. Before cleaner dries, rinse the surface under high pressure with clear water. Rinse thoroughly until cleaning solution has been fully removed.
4. For maximum cleaning, use an extension wand and standard spray tip close to the substrate.
5. Repeat the clean and rinse process until the desired surface finish is achieved.
6. Allow the substrate to fully dry before applying coating.

Spot cleaning:

1. In areas with very heavy dirt buildup, use BDC in concentrate form. Apply a small amount of solution to the affected area and scrub with a stiff-bristled broom.
2. Before cleaner dries, rinse the surface under high pressure with clear water. Rinse thoroughly until cleaning solution has been fully removed.
3. For maximum cleaning, use an extension wand and standard spray tip close to the substrate.
4. Repeat the clean and rinse process until the desired surface finish is achieved.
5. Allow the substrate to fully dry before applying coating.

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.

Note: **8500 is for professional use only.**

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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:	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. Also bonds to gypsum board, wood, polyethylene, propylene, polystyrene, fiberglass, brick, concrete, masonry, OSB, and others. 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. Extremely flexible, with no memory; conforms to almost any shape without return. Self-sealing; can be cut and folded around objects. Silicone release liner protects the tape roll from contamination.
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

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

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Product Data Sheet

7711 (259JB)
Bleed-Block Primer for Silicone Roof Coatings

NEOGARD
A part of HEMPEL

Description: 7711 (Hempel 259JB) is a plasticizer free, single-component, water-based acrylic primer.

Recommended use: 7711 is applied over smooth asphalt roof surfaces to improve adhesion of silicone roof coatings. 7711 also acts as a barrier between the asphalt and the silicone roof coating, preventing yellowing of the silicone coating due to chemicals bleeding out from the asphalt.

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

Colors and packaging:

7711 (259JB23820)	Tan	5- and 55-gallon

Physical constants:

Viscosity	100 cP ± 15 cP
Volume Solids	50% ± 2%
VOC	< 50 g/L
Weight/Gallon	11.4 lbs ± 0.2 lb
Shelf Life	12 months

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 spray (contact Neogard for spray equipment information)
Thinner (max.vol.)	Water (10%)
Mixing	Mix for a minimum of 3–5 minutes before applying
Application rate	100–150 sf/gal (1.0–0.66 gal/100 sf)
Cleaning of tools	Water

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: Apply only when ambient air temperature is above 32°F/0°C. Do not apply if ambient air temperature could fall to within 5°F/3°C of the dew point within 6 hours of application. Do not apply if inclement weather or precipitation is expected.

If sprayed, material temperature should be at least 75°F/23°C.

Subsequent coat: According to Neogard Guide Specifications.

Storage temperature: 7711 is water-based. Product will freeze and become unusable at temperatures below 32°F/0°C.

Remarks: Must cure for at least 24 hours. Water must completely evaporate for full cure. Cool temperatures and high humidity will retard cure.

Subsequent coat must be applied within 30 days of applying 7711 primer. 7711 primer must be clean, dry, and sound before applying subsequent coats. If subsequent coat is applied 3 or more days after 7711 primer, power wash the 7711 primer and allow to dry before applying coating.

Blistering will occur if subsequent coats are applied over base coat that is not completely dry.

Not recommended for constant water immersion or ponding roof areas. Apply only to roofs with adequate slope.

Note: **7711 is for professional use only.**

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Product Data Sheet

70695 (847JB)
Flashing-Grade Silicone Roofing Mastic

Description: 70695 (Hempel 874JB) is a 100% solids, high-build silicone mastic sealant.

Recommended use: For repairs and detailing on the following roof types: Smooth-surface BUR and granulated cap sheet; structural concrete and canopies; metal; polyurethane foam; single ply.

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

Colors and packaging:

70695 (874JB10000)	White	2 gallon

Physical constants:

Tensile strength	130 psi	ASTM D412
Elongation	275%	ASTM D412
Volume solids	95% (±3%)	Calculated
VOC	<50 g/L	ASTM D3960
Tack-free time	1–2 hours	ASTM C697
Cure time	12–18 hours	ASTM C697
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:

Application method:	Brush, trowel, putty knife (contact Neogard if using other methods)
Thinner (max.vol.):	7055 Odorless Reducer (086JB) or Hempel's Thinner 08080 (xylene) (10%)
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: Only apply when temperatures are below 120°F/49°C. When applying in cold weather, condition material at 65°F/18°C before use.

Preceding coat: According to Neogard Guide Specifications.

Subsequent coat: According to Neogard Guide Specifications.

Storage temperature: Store in a cool area to ensure full shelf life. Recommended temperature: 70°F/21°C.

Note: **70695 is for professional use only.**

Issued by: Hempel (USA) – 874JB

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Product Data Sheet

70998 (63XJB)
Silicone Sealant

Description:	70998 (Hempel 63XJB) is a medium-modulus silicone sealant.
Recommended use:	70998 is designed for roofing and joint applications.
Features:	Does not require a primer on most nonporous surfaces. Contact Neogard Technical Service regarding other surfaces.
Service temperatures:	-50°F – 280°F (-45°C – 137°C)
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70998 (63XJB10000)	White	10 fl oz cartridges

Physical constants:

Tensile strength	140 psi	ASTM D412
Elongation	600%	ASTM D412
Modulus, 100%	38 psi	ASTM D412
Shore A	25	ASTM C661
Accelerated weathering	Pass at 5,000 hours	ASTM C793
Dynamic joint movement	±45%	ASTM C719
VOC	<50 g/L	ASTM D3960
Tack-free time	30–60 minutes	ASTM C697
Cure time	6–12 hours at 3/8” depth	ASTM C697
Shelf life at 70°–90°F/21°–32°C	12 months	

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 of tools:	Mineral spirits
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:	Apply only when temperatures are above 20°F/-7°C or below 120°F/49°C.
Preceding coat:	According to Neogard Guide Specifications
Subsequent coat:	According to Neogard Guide Specifications
Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 70°F/21°C.
Remarks:	Not recommended for silicone structural glazing. Not recommended constant water immersion.

Note: **70998 is for professional use only.**

Issued by: Hempel (USA) – 63XJB

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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

7860-LO (47FJB)
Low-Odor RTV Roofing Silicone

Description: 7860-LO series (Hempel 47FJB) is a low-odor, room-temperature-vulcanizing (RTV) silicone.

Recommended use: As a protective, elastomeric roofing material applied over polyurethane foam.

Certificates/approvals:
LEED: MRc5, SSc7.2
CRRC: 0720-0004
UL: TGFU.R6034
Factory Mutual: Class A
Miami-Dade: NOA #15-0609.15

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

Colors and packaging:

7860-LO (47FJB1L000)	White	55- and 5-gallon
7861-LO (47FJB1L030)	Gray	55- and 5-gallon
7862-LO (47FJB1L014)	Dark Gray	55-gallon
7863-LO (47FJB6L080)	Tan (special order only)	55-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	270 psi	ASTM D412
Elongation	350%	ASTM D412
Permanent set	2%	ASTM D412
Tear resistance	26.7 lb/in	ASTM 1004
Water resistance	< 1%	ASTM D471
Shore A	35 - 40	ASTM D2240
Adhesion	2.6 lb/in	ASTM D903
MVT at 30 mils	2.9 metric perms	ASTM E96
SRI	105	ASTM C1549/C1371
Weight/gallon	11.18 lbs/gal	ASTM D1475
Weight solids	77.2%	ASTM D4209
Volume solids	62.6%	Calculated
VOC	247 g/L	EPA Method 24
Flash point	119°F/48°C	ASTM 93-PMCC
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:

Application method:	Roller or spray (contact Neogard for spray equipment information)
Thinner (max.vol.):	Mineral spirits (10%)
Mixing:	Mix for 3–5 minutes before applying
Cleaning of tools:	Mineral spirits or VM&P naphtha

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: Substrate temperature must be above 40°F/5°C and/or below 100°F/37°C, and more than 5°F/3°C above the dewpoint and rising.

Product Data Sheet
7860-LO (47FJB)
Low-Odor RTV Roofing Silicone

Preceding coat:	According to Neogard Guide Specifications.
Subsequent coat:	According to Neogard Guide Specifications.
Accelerators and additives:	7986 (994JB00000): Odor mask, synthetic vanilla scent. 7987 (995JB00000): Odor mask, orange scent.
Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 70°F/21°C.

Note: **7860-LO is for professional use only.**

Issued by: Hempel (USA) – 47FJB

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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

7710 (258JB)

Single-Ply Primer for Silicone Roof Coatings

Description: 7710 (Hempel 258JB) is a plasticizer free, single-component, water-based acrylic primer.

Recommended use: 7710 is applied over aged single-ply TPO and PVC roofing membranes to improve adhesion of silicone roof coatings.

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

Colors and packaging:

7710 (258JB19990)	Black	5- and 55-gallon

Physical constants:

Viscosity	300 cP ± 100 cP
Volume Solids	45% ± 2%
VOC	< 50 g/L
Weight/Gallon	8.8 lbs ± 0.2 lb
Shelf Life	12 months

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 spray (contact Neogard for spray equipment information)
Thinner (max.vol.):	Water (10%)
Mixing:	Mix for a minimum of 3–5 minutes before applying
Cleaning of tools:	Water
Application rates:	TPO substrate: 200 sf/gallon PVC substrate: 100 sf/gallon

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: Apply only when ambient air temperature is above 50°F/10°C. Do not apply if ambient air temperature could fall below 32°F/0°C within 24 hours of application. Do not apply if inclement weather or precipitation are expected, or if dew is expected.
If sprayed, material temperature should be at least 75°F/23°C.

Subsequent coat: According to Neogard Guide Specifications. Before applying additional coat, previous coat must be dry and fully cured.

Storage temperature: 7710 is water based. Product will freeze and become unusable at temperatures below 32°F/0°C.

Remarks: Water must completely evaporate for full cure. Cool temperatures and high humidity will retard cure. Not recommended for constant water immersion or ponding roof areas. Apply only to roofs with adequate slope.

Note: **7710 is for professional use only.**

Issued by: Hempel (USA) – 258JB

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