

PermaGard III

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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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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

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)	
	<i>Contact Neogard for additional widths.</i>		
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		
	<i>The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.</i>		
Application 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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Product Data Sheet

7922 (990JB)

Vertical Additive



Description: 7922 (Hempel 990JB) is an additive for Neogard urethanes to enhance sag resistance of the coating material.

Recommended use: 7922 is used when fluid-applied urethanes are applied to sloped or vertical surfaces.

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

Colors and packaging:

7922 (990JB00000)	NA	1/2 pint cans
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Physical constants:

Weight/gallon	9.1 lbs/gal	ASTM D1475
Weight solids	100%	ASTM D4209
Volume solids	100%	Calculated
VOC	0.0 g/L	EPA Method 24
Viscosity	100 cps	ASTM D2196
Flash point	> 250°F (121°C)	ASTM D3278
Shelf life	1 year	
Cure time, 75°F/23°C, 50% relative humidity	24 hours	TT-S-0023OA
Pot life (mixed with urethane coating, 90–120 minutes 75°F/23°C, 50% relative humidity)		Calculated

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:

7922 can be used for the following urethane coating products. Induction time: 30 minutes.

Product:	7922 per 5 gallons:	Sag resistance (mils):
7430 (57040)	2 x 1/2 pints	14–16
7435 (57040)	2 x 1/2 pints	14–16
70611 series (475JB)	1/2 pint	>50
70620 (473JB)	1/2 pint	>50
70410 (45010)	1/2 pint	14 -16

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.

Product Data Sheet

7922 (990JB)

Vertical Additive



Note: **7922 (990JB) is for professional use only.**

Issued by: Hempel (USA) – 990JB

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Product Data Sheet

7401 (47KJB)

Modified Aromatic Urethane



Description:	7401 (Hempel 47KJB) is a single-component, moisture-cured, modified polyurethane.
Recommended use:	As a waterproofing membrane between slabs or in below-grade applications. Areas include below-grade slabs, parking garages, balconies, plaza decks, and planters.
Features:	Meets South Coast Air Quality Management District (SCAQMD) VOC requirements.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

7401 (47KJB19990)	Black	5-gallon
<i>Special order item only. Contact Neogard for details.</i>		

Physical constants:

Tensile strength	250 psi	ASTM D412
Elongation	500%	ASTM D412
Permanent set	25%	ASTM D412
Water resistance	<3%	ASTM D471
MVT at 60 mils	0.60 English perms	ASTM E96
Shore A	30–40	ASTM D2240
Adhesion	200 psi	ASTM D4541
Weight/gallon	10.2 lbs/gal	ASTM D1475
Weight solids	92%	ASTM D4209
Volume solids	88%	Calculated
VOC	98 g/L	EPA Method 24
Viscosity	97 KU	ASTM D562
Flash point	108°F/	ASTM D3278
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 squeegee
Thinner (max.vol.):	Do not thin
Mixing:	Mix for a minimum of 3–5 minutes before applying
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/43°C.
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Preceding coat:	According to Neogard Guide Specifications.
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Accelerators and additives:	7986 (994JB00000): Odor mask, synthetic vanilla scent. 7922 (990JB00000): Vertical additive, enhances sag resistance. 7923 (9505300000): Accelerator for single component urethanes. 7931 (9905500000): Fast accelerator for use in low humidity environments.
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Storage temperature:	Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C.
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Product Data Sheet

7401 (47KJB)

Modified Aromatic Urethane



Note: **7401 is for professional use only.**

Issued by: Hempel (USA) – 47KJB

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