Metal Roof

Table of Contents

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

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.

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.

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

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. 70991-PDS ksk 04122021.docx

Neogard®, a part of Hempel
2728 Empire Central - Dallas, Texas 75235 - Phone (214) 353-1600 - Fax (214) 357-7532 - www.neogard.com

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.**

Issued by: Hempel (USA) – 089JBB

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. 8500-PDS ksk 04122021.docx

Neogard®, a part of Hempel
2728 Empire Central - Dallas, Texas 75235 - Phone (214) 353-1600 - Fax (214) 357-7532 - www.neogard.com

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.**

Issued by: Hempel (USA) – 62ZJB

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. 86218-PDS ksk 04122021.docx

Neogard®, a part of Hempel
2728 Empire Central - Dallas, Texas 75235 - Phone (214) 353-1600 - Fax (214) 357-7532 - www.neogard.com

Product Data
Ureprime® HS4 Epoxy Urethane Primer

15050: Base 15059: Curing agent 95070

Description:
Ureprime HS4 Epoxy Urethane Primer is a two component, high solids primer that meets VOC regulations requiring less than 100 grams/liter. It offers excellent smoothness that provides a premium topcoat appearance.

Recommended use:
For use on automobiles, trucks, trailers, bulk tanks, and commercial architectural applications that require the ultimate smoothness that offers a premium topcoat appearance.

For roofing applications follow the applicable Neogard Guide Specification.

Features:
Uses same catalyst as ACRYLITHANE™ HS4
Solvent & chemical resistant
Uses as a primer / surfacer
Excellent corrosion resistance
Very low VOC - <100g/L

Service temperatures:
Maximum continuous dry heat exposure: 300°F/149°C

Availability:
Not included in Group Assortment. Availability subject to confirmation.

Physical constants:

Shade no./Color:	16640/White; 57920/Coral
Finish:	Semi-flat
Volume solids, %:	63% ± 2
Theoretical spreading rate:	12.39 m^2/liter - 50 microns [505 sq.ft./US gallon - 2.0 mils DFT]
Flash point:	61°F/16°C
Specific gravity:	1.58 kg/litre - 13.14 lbs/US gallon
Viscosity	35" / Zahn 3
Dry to touch:	6 hours at 20°C/68°F
Through Dry to handle	8 hours
VOC content (mixed):	97 g/litre [0.81 lbs/US gallon

The physical constants stated are nominal data according to the Hempel Group's approved formulas.

Application details:

Version, mixed product	**15050**
Mixing ratio:	BASE 15059 (JB 33014) : CURING AGENT 95041 (JB 99951) 4:1 by volume
Application method:	Airless spray / Air spray / Brush & Roll
Thinner (max.vol.):	Exempt Solvents such as Acetone or t-Butyl Acetate as needed to maintain 100g/L VOC
Pot life:	2.5 hours at 20°C/68°F
Nozzle orifice:	0.011"–0.013" airless / 0.110" or 2.8 MM fluid cap conventional
Nozzle pressure:	131 bar [2,000 psi] (Airless spray data are indicative and subject to adjustment)
Cleaning of tools:	Medium Reducer 0832
Indicated film thickness, dry:	50–125 microns / 2–5 mils (see REMARKS overleaf)
Indicated film thickness, wet:	71259 - 198 microns / 3.2–8.0 mils
Overcoat interval, min:	4 hours (20°C/68°F); 3 hours w/ 0.5 oz./mixed gallon of 99LJB accelerator (formerly 99041)

Safety:
Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Hempel's Safety Data Sheets and follow all local and national safety regulations.

Surface preparation: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Abrasive blasting to Sa 2½ (ISO 8501-1:2007) or SSPC-SP 10 with a sharp-edged surface profile corresponding to Keane-Tator Comparator, 2.0 G/S, 2 S, or ISO Comparator, Medium (G).

Application conditions: Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. Use only where application and curing can proceed at temperatures above 7°C/44°F. The temperature of the paint itself should be: 15–25°C/59–77°F. In confined spaces provide adequate ventilation during application and drying. Alternate reducers such as Acetone may be used to reduce product without adding VOC's.

Preceding coat: According to specification. Recommended systems are: Aluminum Adhesion Promoter; Chem-O-Plex Adhesion Promoter; Chem-O-Z HS2 Organic Zinc Rich Primer; Or Chem-O-Z Quick Dry Organic Zinc Rich Primer.

Subsequent coat: Acrylithane polyurethane enamels.

Remarks:

Mixing: Mix thoroughly before use. Add 1 quart of catalyst to a 1 gallon of Ureprime HS4 and mix thoroughly again. Only apply when air and surface temperature are between 44100°F. Add 08EJB (21102 Fast Spray Reducer) as required. When temperature is over 21°C/70°F, use 08320 (21092 Medium Reducer). Add 08BJB (21093 Slow Reducer) to reduce dry spray and orange peel, if required. 085JB (21078 Special Urethane Retarder) can be added to help add a wet edge for spraying large parts. 08DJB (21099 Brush/Roll Additive) can be used to help applications requiring brushing and rolling.

Pot Life: Approximately 2½ hours after mixing. Mix only the amount of material that can be used in 2 hours. Pot life is decreased with an increase in temperature. Mixed material should be kept in as cool a location as possible. Flush mixed material from pressure pot and lines immediately after use.

Cleaning: Clean paint tools or spills immediately with 08320 (21092 Medium Reducer), MEK, or lacquer thinner carefully observing cautions on paint and thinner labels. Dried paint may need to be removed by scraping.

Overcoating note: Under normal conditions, dries to touch in 6 hours and dries for overcoat in 8 hours. Low temperature, high humidity, poor ventilation and thick films will retard drying. Addition of accelerator 99LJB (formerly JB 99041) at the rate of 0.5 fl. /oz. per mixed gallon will shorten dry times to overcoat at 3 hours and to touch at 4 hours.

Maintenance: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Clean damaged areas thoroughly by power tool cleaning to minimum St 2 (spot-repairs) or by abrasive blasting to min. Sa 2, preferably to Sa 2½ (ISO 8501-1:2007) or SSPC-SP 10. Improved surface preparation will improve the performance of the product. As an alternative to dry cleaning, water jetting to sound, well adhering coat and/or to steel. Intact coat must appear with roughened surface after the water jetting. By water jetting to steel, cleanliness shall be: Wa 2 -Wa 2½ (atmospheric exposure) / minimum Wa 2½ (immersion) (ISO 8501-4). Acceptable flash-rust degree before application: maximum M (atmospheric exposure), preferably L (immersion) (ISO 8501-4). Feather edges to sound and intact areas. Dust off residues. Touch up to full film thickness. On pit corroded surfaces, excessive amounts of salt residues may call for high pressure water jetting, wet abrasive blasting or, alternatively, dry abrasive blasting, high pressure fresh water hosting, drying, and finally dry abrasive blasting again

Issued by: Hempel (USA) 15050

Product Data Sheet
ACRYLITHANE™ HS2 URETHANE

57010: BASE 57019: CURING AGENT 54041
57011: BASE 57019: CURING AGENT 54042

Description:
ACRYLITHANE™ HS2 POLYURETHANE is a two component, high performance polyurethane topcoat formulated for use in areas requiring VOC's less than 2.8 lbs. / gallon. It offers a full gloss and a high quality appearance with exceptional color and gloss retention while maintaining exceptional chemical resistance.

Recommended use:
For use on automobiles, trucks, trailers, bulk tanks, chemical trailers and commercial architectural applications that require a premium topcoat appearance.

Features:
Uses same catalyst as UREPRIME® HS2 PRIMER
Excellent gloss and color retention
Chemical resistant
Low VOC
Wide color offerings, including metallic effect

Service temperatures:
Maximum, dry service exposure only: 149°C/300°F

Availability:
Not included in Group Assortment. Availability subject to confirmation.

Physical constants:

Colors/shade Nos.:	White/00010* (JB 45080)
Finish:	High gloss
Volume solids, %:	64 ± 1
Theoretical spreading rate:	25.6 m2/l - 25 µ - 1026 sq. ft./US gal. - 1 mil
Flash point:	95°F / 35°C
Specific gravity:	1.4 kg/litre - 11.7 lbs/US gallon
Dry to touch:	6 hours at 20°C/68°F
Dry to handle:	8 hours
Viscosity, mixed:	20-30" / Zahn 3
VOC content:	322 g/litre [2.7 lbs/US gallon]

The physical constants stated are nominal data according to the Hempel Group's approved formulas.
**Wide range of colors and metallic available via Acrylithane™ HS Tint System.*

Application details:

Version, mixed product	**57010 / 57011**
Mixing ratio:	BASE 57019 (JB 45080) : curing agent 95041 (JB 99951) / 95042 (JB 99961) 3 : 1 by volume
Application method:	Airless spray / Air spray / Brush
Thinner (max.vol.):	0832 (JB 21092) 0–5% / 5–15% / none
Pot life:	3.0 hours at 20°C/68°F
Nozzle orifice:	0.011" – 0.013" (airless) / 0.110" or 2.8 MM fluid cap (airless)
Nozzle pressure:	138 bar [2,000 psi] *(Airless spray data are indicative and subject to adjustment)*
Cleaning of tools:	MEDIUM REDUCER 0832 (formerly JB 21092)
Indicated film thickness, dry:	38 – 76 µ / 1.5 – 3.0 mils
Indicated film thickness, wet:	59 – 118 µ / 2.3 – 4.7 mils
Overcoat interval, min:	4 hours (20°C/68°F); 3 hours w/ 0.5 oz./mixed gallon of 99LJB accelerator (JB 99041)

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

Surface preparation: According to specification.

Application conditions: Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. Use only where application and curing can proceed at temperatures above: 7°C/44°F. The temperature of the paint itself should be: 15–25°C/59–77°F. In confined spaces provide adequate ventilation during application and drying. Thinning may be necessary in the case of very long spray hoses and/or paint temperatures below: 15°C/59°F. This will cause lower film build and longer drying time. Alternate reducers such as Acetone may be used to reduce product without adding VOC.

Preceding coat: According to specification. Recommended systems are: UREPRIME® HS2; CHEM-O-GARD LOW VOC PRIMER; CHEM-O-PON LOW VOC EPOXY PRIMER.

Subsequent coat: According to specification. Recommended systems are: ACRYLITHANE™ HS2.

Remarks: Mixing: Mix thoroughly before use. Add 1 quart of catalyst to a 3/4 gallon of ACRYLITHANE™ HS2 and mix thoroughly again. Only apply when air and surface temperature are between 44–100°F/.

Thinning: Add 08EJB (formerly JB21102 Fast Spray Reducer) as required. When temperature is over 70°F, use 08320 (formerly 21092 Medium Reducer). Add 08BJB (formerly 21093 Slow Reducer) to reduce dry spray and orange peel, if required.

Drying: Under normal conditions, dries to touch in 6 hours and dries for overcoat in 4 hours for spray applications and dries for overcoat in 6 hours for brush and roll applied film. Low temperature, high humidity, poor ventilation and thick films will retard drying. Addition of accelerator 99LJB (formerly JB99041) at the rate of 0.5 fl. /oz. per mixed gallon will shorten dry times to spray overcoat at 4 hours and to touch at 7 hours.

Pot life: Approximately 3 hours after mixing. Mix only the amount of material that can be used in 3 hours. Pot life is decreased with an increase in temperature. Mixed material should be kept in as cool a location as possible. Flush mixed material from pressure pot and lines immediately after use.

Cleaning: Clean paint tools or spills immediately with 08320 (21092 Medium Reducer), MEK, or lacquer thinner carefully observing cautions on paint and thinner labels. Dried paint may need to be removed by scraping.

Overcoating note: Sanding or roughening of surface is recommended if overcoating after 2 weeks.

Note: **ACRYLITHANE™ HS2 URETHANE is for professional use only.**

Issued by: Hempel (USA) – 5701000010 / 5701100010