InnoStar Solutions, Inc

Non-Skinning Butyl Sealant



PRODUCT INFORMATION SHEET

2015

Product Description

InnoStar Solutions Butyl Sealant is a non-skinning, high solids, non-drying, synthetic butyl elastomer sealant.

Product Benefits

- Excellent adhesion to ZINCALUME®, KYNAR500®, stainless steel, polyvinylidene fluoride, Galvalume®, Galvalume® Plus, aluminum, concrete, gypsum, wood surfaces, foam boards, plastic and fiberglass.
- · Does not corrode Galvalume® or copper
- VOC compliant (52 g/L)
- Not flammable, flashpoint (158°F)
- · Minimal cut-off strings, Minimal cob webbing, Non-messy
- Microscopic skin-over minimizes sealant transfer & dust pickup after application before panels are joined
- Factory sealed panels bonded in field up to 6 months after application
- Panels easily separated after extended periods for repair or maintenance
- · Exhibits excellent tackiness for permanent bonding
- · Contains anti-microbial agent which inhibits growth of mildew
- · Excellent resistance to severe heat, cold, and moisture
- Compatible with most grades of flashing for waterproofing

Typical Applications

- Factory sealing the female lip of standing seam roof and wall panels and concealed end laps.
- Field caulking for insulated wall panel joints & other metal building components
- · Reducing sound and vapor transmission as acoustical sealant
- Sealing between dissimilar metals to prevent electrolysis
- Sealing base plates to concrete slabs
- · Use as a window and door installation bedding sealant
- Flows into panel joint at erection temperatures ranging from -10Fto +140F

User Instructions

- Surface Preparation: Apply to clean, dry, sound, and frostfree surfaces
- Keep non-skinning butyl sealant from sight line when painting is necessary
- Testing for intended applications before proceeding with complete job is recommended to ensure adhesion and material compatibility
- Cartridges and sausages can be dispensed via standard manual or pneumatic caulking guns. Pails and drums are dispensed via typical bulk ram pumps. Contact InnoStar Solutions Inc. for detailed assistance
- Clean-up: Mineral spirits or similar solvents

Specification Conformance

- Federal Specification TT-C-1796A. Caulking compounds, metal seam, and wood seam (Type I)
- AAMA 800-92: Flexibility cold testing to -100°F
- · AAMA 809.2: Specs for non-drying sealants
- ASTM E1680-95: Standard test method for rate of air leakage through exterior metal roof panel systems
- ASTM E1646-95: Standard test method for water penetration of exterior metal roof panel systems by uniform static air pressure differential.
- ASTM E2140-01: Standard test method for water penetration of metal roof panels by static water pressure head
- · FDA regulated for food contact
- USDA and CFIA accepted

Packaging

- 10.1 & 29 oz. cartridges
- 10 oz. and 20 oz. sausages
- 5 gallon pails
- 55 gallon drums

Color

· Off-white and Gray

Shelf Life

• 18 months in unopened container when stored below 90°F

Precaution Information

- CAUTION: COMBUSTIBLE LIQUID & VAPORS. Contains mineral spirits. Keep away from heat and flame. Avoid skin contact. Wash thoroughly after handling. Avoid breathing vapors. Use with adequate ventilation. Not for internal consumption
- SEE MSDS for additional information
- KEEP OUT OF REACH OF CHILDREN

Important Notice

InnoStar Solutions, Inc. MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the InnoStar Solutions Inc. product is fit for a particular purpose and suitable for user's method of application. Given the variety of factors that can affect the use and performance of an InnoStar Solutions Inc. product, many of which are uniquely within the user's knowledge and control, it is essential that the user evaluate every product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Technical Data

Physical Properties

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Color	Off-white or Gray
VOC Content (via EPA Method 24)	3.5%
Total Solids (ASTM C 681)	93 - 96%
Volume Shrinkage (ASTM D 2453)	Up to 9%
Weight per US Gallon (ASTM D 1475)	12.90 - 13.14 lbs
Wet Flammability (ASTM D56)	158°F
, ,	40 - 60 sec. per 20 grams thru 0.104" orifice @ 50 psi
Extrudability (ASTM D 2452) Drying Time	Non-skinning, remains permanently soft and tacky
, 0	Nil
Sag (ASTM D 2202)	100°F to 200°F (-70°C to 90°C)
Service Temperature Range Application Temperature Range	10°F to 120°F (-10°C to 50°C)
Engageability	Sealant will engage easily to make a joint at 10°F
Eligageability	
Vehicle Bloodout (ASTM D 03E Method A)	No visible exudation of vehicle from sealant after 3 weeks at 158°F
Vehicle Bleedout (ASTM D 925 Method A) Flexibility (ASTM C 711)	(70°C) on painted or unpainted metal surfaces No loss of adhesion to -100°F
Flexibility (ASTIVI C 711)	
	No darkening, etching or salt deposits on Galvalume®, Galvalume Plus®,
Non-corrosive	Acrylume®, Zincalume®, Kynar 500®, aluminum, aluminized steel, or galvanized metal
Staining (ASTM D 925 Method A)	Sealant will not stain a painted surface
Staining (ASTW D 323 Wethour)	
	Excellent adhesion to oily Galvalume®, Galvalume Plus®, Acrylume®, Zincalume®, Kynar 500®, aluminum, aluminized steel, or galvanized
Adhesion (ASTM C 794)	metal
runesion (rishivi e 754)	Does not exude oil when applied between 2 metal panels bolted
	together allowing 1/16" seal. Assembly conditioned for one week at
Oil Migration (Fed Spec TT-C-1796A)	158°F
Resistance to fungus/mildew growth	Will resist fungal attack and not support mildew growth
Heat Aging	No loss of surface tack or adhesion
Weatherability (ASTM G 154)	No cracking, bleeding or loss of rubbery characteristics
Treatment (North C 25 t)	Excellent to water, ozone, water vapor, alcohols; Fair to weak for acids
Chemical Resistance	and bases. Poor to organic solvents
Static Water Pressure Head Test (ASTM E-2140-	
01)	Sealant passes 6 inches of static water pressure head, no leakage
/	Sealant passes. Air infiltration @ 1.57 psf → 0.0016 cfm/ft^2 and
Rate of Air Leakage Thru Exterior Metal Roof	0.0032 cfm/lin ft. Air infiltration @ 6.24 psf \rightarrow 0.0037 cfm/ft^2 and
Panel Systems (ASTM E 1680)	0.0073 cfm/lin ft
Water Penetration of Exterior Metal Roof Panel	
Systems by Uniform Static Air Pressure	
Difference (ASTM E 1646)	Sealant passed. No water leakage.
-,	Contains no carcinogenic ingredients. Dispose in accordance with local
Toxicity	regulations. Meets FDA, USDA and CFIA.
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Limitation of Liability

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