



Sealants, Inc.

PRODUCT DATA

275.12

NON-SKINNING, STANDING SEAM PUMPABLE BUTYL CAULK

DESCRIPTION

275.12 is a premium quality, non-skinning, non-hardening, pumpable, butyl-based sealing caulk. It is formulated for sealing metal wall panels, standing roof seams, roof deck panels and expansion joints of similar and dissimilar materials without the need for a primer. It can be used in concealed joints in metal to metal assemblies. It is designed to be factory or field applied and is excellent for sealing joints against infiltration of air, dust, water and pollutants.

275.12 has excellent weathering properties and remains permanently elastic. It is flexible at low temperatures and will not dry out or crack on aging. It yields a 100% cohesive failure to most clean substrates when the bond is broken.

275.12 can be dispensed from a positive displacement pump (Graco 40:1 Bull Dog Pump or equivalent) or a manual applicator. The material cuts off easily at the nozzle and is not stringy. After application, the material develops a light film but remains soft and tacky so as to allow a good bond when two panels are butted together. Because it has residual tack, the sealant can create a bond between two panels up to six months after initial application.

PROPERTIES

Property	Test Method	Typical Values
Color	ASTM D1729	White to off-white
Odor		Mild solvent odor when wet. None when dry.
Service Temperature		-60°F to 180°F
% Solids	ASTM C771	88 ± 3% by weight 78 ± 3% by volume (166 g VOC/liter)
% Shrinkage		~20%
Specific Gravity	ASTM D297	1.36 ± 0.05 g/cm ³
Weight per Gallon		11.3 ± 0.5 pounds per gallon
Flexibility	ASTM C765	Passes a ¼-inch mandrel bend @ 0°F after 3-cycles of 16-hrs @ 158°F + 8-hrs @ 0°F.
% Elongation	ASTM C907, cured 7-days @ 158°F + 14-days @ 77°F	300% @ 77°F 150% @ 50°F
Slump	ASTM D2202, 30-minutes @ 158°F	0.00-inch typical, 0.15-inch maximum
Viscosity	ASTM D2196	~3 x 10 ⁶ cps
Extrudability (Press-Flow Rheometer)	TP-026, 0.104-inch orifice @ 50 psi	15 – 20 seconds
Freeze – Thaw Stability	50,000+ cycles of 6-minutes @ -10°F + 2-minutes @ 80°F with water spray	Pass
Weatherability	ASTM D750, 1000-hours QUV exposure	No apparent change of physical properties, slight discoloration.

Property	Test Method	Typical Values
Discoloration from Ultraviolet Light Exposure	ASTM D1148, 2000-hrs UVA-340	No change.
High Temperature Aging	1-year @ 180°F	No sagging, cracking or property loss.
Tack-free Time	ASTM C679	Relatively tack-free after 18-hours.
Engageability	TP-002 Age 7-days @ 158°F + 14-days @ 77°F	The sealant will bond to another metal substrate and form a web with cohesive failure when pulled apart.
Staining	ASTM D925, Method A	No staining of the painted metal.
	ASTM D925, Method B	No migration stain, flow or skinning.
Corrosive Effects	TP-008	No evidence of pitting or corrosion of aluminum or galvanized steel after 7-days aging of the sealant on metal in water @ 158°F.
Bubble Formation	TP-004	<25% of surface after 120-hours @ 158°F.
Shelf Life		2-years when stored in the original container at normal warehouse temperatures.

REGULATIONS and SPECIFICATIONS

Department of Defense: Meets UFC 3-110-03, Section 5-3.3.3 Seam Sealant requirements.

Federal Specification: TT-C-1796A, Type I, Class A.

LEED: Conforms to Leadership in Energy and Environmental Design 2009 for New Construction, Indoor Environmental Quality: Section 4.1, Low-Emitting Materials: Adhesive & Sealants (SCAQMD) Rule # 1168, VOC limits.

NAAMM: Meets standard SS-1a-68.

U.S.D.A.: Is acceptable to the U.S. Department of Agriculture for use in meat and poultry processing area under federal inspection.

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