



Acryl-R[®] SM8500 Elastomeric Sealant

TECHNICAL DATA

PRODUCT DESCRIPTION:

SM8500 Acryl-R[®] Elastomeric Sealant is a high performance sealant designed for exterior and interior building construction details. It is a single component, non-sag sealant able to withstand 50% total joint movement. It develops high adhesion to most common construction materials. These properties make it suitable for sealing a wide variety of joints between similar and dissimilar surfaces. This elastomeric construction sealant is USDA approved for use in establishments operating under the Federal Meat and Poultry Inspection Program. It is formulated from a high molecular weight acrylic latex polymer. It is non-flammable and has very low VOC. This non-stringing product is easily tooled. Excess material is easily removed with a water dampened cloth before cure.

BASIC USE:

SM8500 Elastomeric Sealant can be used to seal window and door perimeters, construction joints, O.E.M. fabrications, brick/masonry, base-plates, siding, tuck pointing, transportation assemblies, pipe pass-thru, log homes and toilet fixtures.

ADVANTAGES:

- Mild, pleasant odor
- User friendly
- Water clean-up
- Fast surface skinning
- Paintable after cure
- Low VOC
- USDA approved
- Ideal institutional maintenance sealant
- Excellent adhesion to common building materials

SPECIFICATION COMPLIANCE:

SM8500 Sealant meets or exceeds the performance test requirements of:

Federal Specification TT-S-00230C (COM-NBS) Class A, Non-Sag, One Component* CID-A-A-272, Type II ASTM C-920, Type S, Grade NS, Class 25* AAMA 802.3-92 AAMA 808.3 ASTM C-834

* Meets these specifications with the exception of the weight loss requirements due to water content.

TYPICAL PROPERTIES:

Property	White	Clear
Consistency:	Soft, non-stringy paste	
Odor:	Mild-Pleasant	
Density: lbs/gal, ASTM 1475	12.5	8.9
Percent Solids:		
By Weight	80%	60%
By Volume	70%	58%
pH:	8.5 – 9.0	7.5 -8.0
Flash Point Tag Open Cup:	>200°F (>93°C)	
VOC: g/l	37	52
Slump: ASTM D 2202	0.15" max.	
Viscosity: Brookfield HBT, Spindle 7@100 rpm	40,000	78,000
Extrusion Rate: grams/sec. ASTM C 731	23	7.0
Freeze/Thaw Stability: 5 cycles 0°F/75°F (17.8°C/23.8°C)	Passes	
Tack-Free Time: Hours	2 -3	
Service Temperature Range:	-20°F – 180°F (-29°C – 82°C)	
Max Tensile Strength: PSI (N/mm ²) ASTM D 412	149 (1.028)	73 (0.503)
100% Modulus: PSI (N/mm ²) ASTM D 412	97 (0.669)	19 (0.131)
Elongation: ASTM D 412	332%	900%
Hardness: Shore A ASTM C 661	26	20
Low Temperature Flexibility: ASTM C 734	Pass 0°F (17.8°C)	
Peel Adhesion: P.L.I. (N/mm) AAMA 800 Glass/Aluminum/Wood/Mortar	24 (100)	28 (100)
Stain Index: ASTM D 2203	0	0
Artificial Weathering: 500 Hrs. in QUV	Passes	
Wash Out:	None	
Joint Movement Capability: ASTM C 794	±25%	
Discoloration / Cracking:	None	
Adhesion Loss:	None	
Crazing of Acrylic or Polycarbonate Sheet: MIL-S-110306	None	
Shelf Life:	SM8500 has an 18 month shelf life when stored in a tightly closed container at 50°F – 90°F (10°C – 32°C).	

INSTALLATION:

Surfaces must be clean and free from contaminants such as oils, release agents, old caulking, loose paint, dust and free-standing water. Millwork treated with preservatives requires evaluation for adhesion.

Do not apply sealant at temperatures below 40°F (4.4°C) or when it will be subjected to water before a firm skin forms (generally in 2 to 3 hours but lower temperatures and high relative humidity will increase the time to skin).

SM8500 Elastomeric Sealant may be installed with standard caulking guns or industrial pump and flow gun equipment, with a 30:1 ratio. Stainless steel pumping equipment is required to prevent water damage. Standard practices for use of joint back-up material and bond breakers should be followed. The FGMA Sealants Manual of Glazing Techniques and ASTM C 1193 should be followed. Three sided adhesion should be avoided. Sealant dimensions in butt joints should not exceed ½" x ½" (12.5mm x 12.5mm) or be less than 3/16" x 3/16" (4.77mm x 4.77mm) deep. The sealant will form a concave surface as it cures (due to water evaporation). Butt joints should be tooled flush to produce a final recessed seal cross section. Small fillet beads will not require tooling.

Latex paint can be applied after the sealant has formed a firm skin. Oil base paints can be applied after 24 hours

LIMITATIONS:

Not recommended for use on:

- a) Joints subjected to continuous water immersion.
- b) Joints or surfaces contaminated with oils or release agents.
- c) Skylights.
- d) Below grade applications.

Should not be applied to frost bearing surfaces or when temperature is below 40°F (4.45°C). Do not use for exterior applications when rain is imminent.

CLEAN-UP:

A water moistened cloth will readily aid in cleaning up any excess sealant smear before cure. A soapy water mixture will facilitate the cleanup of tools and equipment. After cure, use a solvent such as isopropyl alcohol to remove sealant from tools and equipment. Consult MSDS on solvent before use.

IF THIS PRODUCT IS USED IN DIRECT CONTACT WITH ANY OTHER SEALANT, ELASTOMER, THERMAL-BREAK COMPOUND OR ARCHITECTURAL PAINT, A COMPATIBILITY TEST MUST BE CONDUCTED, BY PURCHASER OR USER, PRIOR TO ACCEPTANCE. The suitability of this product, for each intended use, must be determined by purchaser or user prior to acceptance.

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