



## TECHNICAL DATA

# Acryl-R<sup>®</sup> SM8200 Acrylic Latex Sealant

### PRODUCT DESCRIPTION:

SM8200 Acryl-R<sup>®</sup> is a siliconized latex sealant exhibiting outstanding physical characteristics. Tests indicate SM8200 Acrylic Latex Sealant imparts integral flexibility, good adhesion, and excellent resistance to ultraviolet and infrared radiation.

### BASIC USE:

SM8200 is an ideal sealant for use as a drop-in back bedding compound for wood window assembly. It is also an excellent caulk for window and door perimeters, external siding and pipe entries.

### ADVANTAGES:

- Mild, pleasant odor
- User friendly
- Water clean-up
- Fast surface skinning
- Paintable after cure
- Low VOC

### SPECIFICATION COMPLIANCE:

SM8200 Sealant meets or exceeds the requirements of: ASTM C-834

### INSTALLATION:

Apply to a clean, dry, uncontaminated surface. No exterior application should be done when rain showers are imminent. DO NOT APPLY AT TEMPERATURES BELOW 40°F (4.5°C). Old caulk, cracked paint, and release agents must be removed. SM8200 Acrylic Latex Sealant may be installed with standard caulking guns or industrial pump and flow gun equipment, with a 20:1 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 1/2" x 1/2" (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.

### TYPICAL PROPERTIES:

<i>Property</i>	<i>Colors</i>	<i>Clear</i>
Consistency:	Soft, non-stringy paste	
Odor:	Mild-Pleasant	
Density: lbs/gal, ASTM 1475	12.6	8.0
Percent Solids:		
By Weight	79.3%	60.0%
By Volume	70.0%	58.0%
pH:	8.5 – 9.0	7.0 -8.0
Flash Point Tag Open Cup:	>200°F (>93°C)	
VOC: g/l	6	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 <sup>2</sup> ) ASTM D 412	40 (0.28)	73 (0.503)
100% Modulus: PSI (N/mm <sup>2</sup> ) ASTM D 412	30 (0.21)	19 (0.131)
Elongation: ASTM D 412	700%	800%
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	13 (100)	11 (100)
Stain Index: ASTM D 2203	0	0
Artificial Weathering: 500 Hrs. in QUV	Passes	
Wash Out:	None	
Cracking:	None	
Discoloration:	None	
Adhesion Loss:	None	
Crazing of Acrylic or Polycarbonate Sheet: MIL-S-110306	None	
Shelf Life:	SM8200 has an 18 month shelf life when stored in a tightly closed container at 50°F – 90°F (10°C – 32°C).	

### **PAINTING AND STAINING:**

Allow sufficient cure prior to painting or staining. Quality latex coatings can be applied after the sealant has formed a firm skin (usually 2-4 hours at 70°F and 50% R.H.). Oil based coatings can be applied after 24 hours. High humidity or cool temperatures will extend the required time.

### **LIMITATIONS:**

This sealant, after cure, will accommodate 20% total joint movement.

Not recommended for use on:

- a) Dynamic expansion joints.
- b) Joints subjected to continuous water immersion.
- c) Joints or surfaces contaminated with cutting or fabrication oils.
- d) Joints in excess of ½" x ½".
- e) Dynamic skylight details.
- f) Special architectural finishes without pre-testing adhesion.

### **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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