



## TECHNICAL DATA

# Acryl-R<sup>®</sup> SM8404 Acrylic Latex Narrow Joint Sealant

### PRODUCT DESCRIPTION:

Acryl-R<sup>®</sup> SM8404 Narrow Joint Sealant is a single component acrylic latex sealant designed to seal mechanically fixed joints. Tests indicate that this sealant, after cure, fulfills the requirements of many fenestration sealant details. This self leveling product exhibits the control necessary to properly seal intricate shaped details. Corner joints, mechanical fasteners, flashing joints, screw heads and hidden wall system joints may be sealed with this sealant. SM8404 has excellent weatherability when exposed to ultraviolet radiation, rain, condensation, infrared radiation, atmospheric hydrocarbons, ozone and extremes in temperature.

### TYPICAL USES:

- Fenestration details
- Mitered joints.
- Screw Heads
- Flashing joints
- Hidden wall system joints

### SPECIFICATION COMPLIANCE:

AAMA 803.3 Type II

### APPLICATION:

- Surfaces must be clean and free from contaminants such as oil, release agents, old caulking, loose paint, dust and free standing water.
- Millwork treated with preservatives requires evaluation for adhesion.
- Do not apply the sealant at temperatures below 40°F (4.45°C) or when it will be subjected to water before a skin forms.
- Tools and application equipment may be cleaned with a soapy water mixture.
- The FMGA sealant manual of glazing technique and ASTM C1193 should be followed.
- Three sided adhesion should be avoided. Sealant dimensions in butt joints should not exceed 3/32" x 3/32" (2.38 x 2.38 mm). Triangular or round beads should not exceed 1/4" (6.35 mm) width or depth.
- Cured sealant must be removed mechanically.

### TYPICAL PROPERTIES:

<i>Property</i>	<i>Typical Value</i>	<i>Test Method</i>
Consistency:	Soft, stringy paste	
Odor:	Mild-Pleasant	
Density:	8.7 lbs. /gal. (1.04 kg/l)	ASTM D1475
Percent Solids:		
By Weight	60%	
By Volume	58%	
pH:	7.0 – 7.5	
Flash Point:	>200°F (>93°C)	Tag Open Cup
Viscosity: Brookfield HBT, Spindle 5@50 rpm	95,000 to 115,000 cps	
Extrusion Rate:	<1 sec.	ASTM C603
Freeze/Thaw Stability:	Passes	
Tack-Free Time:	3 Hours	ASTM D2377
Service Temperature Range:	-20°F – 180°F (-29°C – 82°C)	
Max Tensile Strength:	33 psi (0.228N/mm <sup>2</sup> )	ASTM D412
100% Modulus:	12 psi (0.083N/mm <sup>2</sup> )	ASTM D412
Elongation:	900%	ASTM D412
Hardness:	8 Shore A	ASTM C661
Peel Adhesion: (Aluminum)	11 P.L.I. (100% Cohesive Separation)	ASTM D794
Volatile Organic Compounds:	20 g/l	
Stain and Color Change:	No Stain, slight color change	ASTM C510
Crazing of Acrylic or Polycarbonate Sheet:	None	MIL-S-11030C
Shelf Life:	SM8404 has an 18 month shelf life when stored in a tightly closed container at 50°F – 90°F (10°C – 32°C).	

### LIMITATIONS:

Not recommended for:

- a) Dynamic expansion joints.
- b) Joints that will be subjected to continuous water immersion.
- c) Surfaces contaminated with fabricating oils.
- d) Special architectural finishes without proper testing.

### SURFACE LIMITATIONS:

This sealant should not be applied to the following surfaces/details:

- a) Highly plasticized setting of spacer blocks
- b) Highly plasticized gasket compounds
- c) Unclean or wet surfaces

## APPLICATION LIMITATIONS:

- a) Should not be applied to frost bearing surfaces or when the temperature is below 40°F (4.45°C).
- b) Joints sealed with SM8404 compound should not exceed 3/32" (2.38 mm) width or depth.
- c) Avoid air entrapment during application.
- d) No exterior application should take place if rain is imminent.
- e) Latex paint can be applied after the sealant has formed a firm skin (usually 3-4 hours at 70°F (21.1°C) and 50 % R.H.) oil base paints can be applied after 24 hours.

## PRETEST ADHESION:

Pretest for adhesion is intended to eliminate potential field problems by testing SM8404 with samples of building materials on which it will be applied. This testing will aid in determining the proper surface preparation method and effective cleaning techniques prior to application.

## PRECAUTIONS:

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 the purchaser prior to acceptance.

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