



## TECHNICAL DATA

# Acryl-R® SM5430 Non-Skinning, Non-Sag SSR Sealant

### PRODUCT DESCRIPTION:

SM5430 Acryl-R® is a non-skinning, non-drying sealant based on a unique elastomer that provides a non-stringy consistency and excellent resistance to severe environmental conditions of heat, cold and moisture. It has excellent cut-off characteristics and is not stringy or messy to apply. It has excellent adhesion to GALVALUME®, GALVALUME PLUS®, ACRYLUME®, ZINCALUME®, KYNAR 500®, siliconized and polyvinyl fluoride painted metals. It has excellent webbing characteristics.

### TYPICAL USES:

SM5430 is designed for factory sealing the female lip of a concealed standing seam roof (SSR) rib, as well as wall panels and polyurethane foam panel joints where a positive seal is required in mechanically fixed joints.

- Specifically formulated for precise application into concealed panel joints for roll forming lines
- Excellent for factory sealing standing seam roof panels and end laps
- Excellent for sealing between dissimilar metals to prevent electrolysis
- Excellent for use as an acoustical sealant
- Excellent surface wetting over a wide temperature range
- Excellent for sealing hidden details in window and door installations; bedding of mounting fins and flashing and sealing end dams and receptor pans
- Excellent for sealing base plates to concrete slabs before anchoring

### ADVANTAGES:

- Excellent adhesion to GALVALUME®, GALVALUME PLUS®, ACRYLUME® and KYNAR 500®
- Will not corrode GALVALUME® or copper
- Not stringy or messy to apply
- Excellent pumpability provides a smooth, clean application
- Panels can be erected in the field for up to six months after being factory caulked
- Panels can be easily separated after extended periods for repair and maintenance
- Good gunnability during field application to end laps

### INSTALLATION:

SM5430 can be applied from 10.1 oz. (300 ml) and 30 oz. (888 ml) cartridges using standard hand or air caulking guns. For bulk applications it can be extruded from either straight-sided plastic 5-gallon pails or 50-gallon (with poly liner) drum using a Graco 55:1 ratio pump and fluid pressure of 30-50 psi. Graco mastic regulator, part #903-958 is required.

### SPECIFICATION COMPLIANCE:

**Federal Specification:**  
Meets TT-C-1796A, Type 1, Class A

**AAMA 809.2:**  
Sealant meets this specification

**U.S.D.A. Acceptability:**  
USDA Acceptable

**Freight Classification:**  
Caulking Compound, NOIBN,  
NMFC #149610, Class 55

*Acryl-R is a registered trademark of Schnee-Morehead®, Inc. KYNAR 500 is a registered trademark of Atofina Chemicals, Inc. GALVALUME is a registered trademark of BIEC International. GALVALUME PLUS is a registered trademark of Bethlehem Steel Corporation. ZINCALUME is a registered trademark of BHP Steel. Acrylume is a registered trademark of USX Corporation.*

### PACKAGING:

- 10.1 oz. (300 ml) plastic cartridges, 30 cartridges per case
- 30 oz. (888 ml) cartridges, 12 cartridges per case
- 5 gallon (18.95 liters) straight side plastic pails
- 50 gallon (189.25 L) drums with polyliner.

### PRECAUTIONS:

Avoid skin and eye contact. On contact, uncured sealant could cause irritation to the skin and eyes. In case of eye contact, flush eyes with warm water for 15 minutes, call a physician. For skin contact remove sealant with a paper towel. If swallowed, do not induce vomiting, call a physician. **KEEP OUT OF REACH OF CHILDREN.** This product is manufactured for industrial use only.

## TYPICAL PROPERTIES

Color:	Off White
Extrudability (ASTM D 2452):	30 to 50 sec. per 20 grams through a 0.104" orifice @50 psi
Total Solids (ASTM C 681):	85% (by wt.)
Volume Shrinkage (ASTM D 2453):	Less than 15%
Weight per U.S. Gallon (ASTM D 1475):	10.75 lbs. ±0.25 lbs.
Coverage Range:	1500 lineal ft. per gallon at 1/8" bead 695 lineal ft. per gallon at 3/16" bead 392 lineal ft. per gallon at 1/4" bead
Drying Time:	Non-Skinning, remains permanently soft and tacky
Engageability:	Sealant will easily engage and transfer to male joint at 10°F
Vehicle Bleedout (ASTM C772):	No visible exudation of vehicle from sealant after three weeks at 158°F (70°C) on painted or unpainted metal surface
Flexibility (ASTM C 711):	No loss of adhesion at -60°F (-51°C)
Service Temperature Range:	-60°F to 200°F (-51°C to 93°C)
Application Temperature Range:	10°F to 120°F (-12°C to 49°C)
Sag (ASTM D 2202):	0.20" Max (5.08 mm) Full Button
Non-Corrosive:	No darkening, etching or salt deposits on GALVALUME <sup>®</sup> , GALVALUME PLUS <sup>®</sup> , ZINCALUME <sup>®</sup> , ACRYLUME <sup>®</sup> , KYNAR 500 <sup>®</sup> , aluminum, aluminized steel or galvanized metal
Staining (ASTM D 925 Method A):	Sealant will not stain a painted surface
Adhesion (ASTM C 794):	Excellent adhesion to oily GALVALUME <sup>®</sup> , GALVALUME PLUS <sup>®</sup> , ZINCALUME <sup>®</sup> , KYNAR 500 <sup>®</sup> , ACRYLUME <sup>®</sup> , aluminum, aluminized steel or galvanized metal
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, 1000 hrs. QUV exposure):	No cracking, bleeding or loss of rubbery characteristics
Chemical Resistance:	Excellent to water, ozone, water vapor, alcohols: fair to weak for acids and bases. Poor to organic solvents
Proposed ASTM Static Water Pressure Head Test:	Sealant passes 6 inches of static water pressure head, no water leakage
Rate of Air Leakage Through Exterior Metal Roof Panel Systems (ASTM E 1680):	Air infiltration @1.57 psf pressure 0.0510 cfm/sq. ft. and 0.0680 cfm/ft. Air infiltration @ 6.24 psf pressure 0.1024 cfm/sq. ft. and 0.1365 cfm/ft.
Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference (ASTM E 1646):	Sealant passed, no water leakage
Wet Flammability (ASTM D 56):	110°F flash point
Toxicity:	Contains no carcinogenic ingredients. Dispose of in accordance with regulations of locale.
Shelf Life:	18 months minimum in unopened container when stored at or below 90°F (32°C)

### EXCLUSION OF WARRANTIES:

**AS TO THE HEREIN DESCRIBED MATERIALS, SCHNEE-MOREHEAD<sup>®</sup>, INC. MAKES NO WARRANTIES WHETHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SINCE THE USE OF THE HEREIN DESCRIBED MATERIALS INVOLVES MANY VARIABLES IN METHODS OF APPLICATION, HANDLING AND/OR USE, THE USER IN ACCEPTING AND USING THESE MATERIALS ASSUMES ALL RESPONSIBILITY FOR THE END RESULT. THE PURCHASE OF THIS SCHNEE-MOREHEAD<sup>®</sup>, INC. PRODUCT IS SUBJECT TO THE TERMS AND CONDITIONS OF AN "AS IS" SALE, AND IF THE PRODUCT IS PROVED TO BE DEFECTIVE, THE EXCLUSIVE REMEDY, AT SCHNEE-MOREHEAD<sup>®</sup>, INC.'S OPTION, SHALL BE TO REPLACE THE DEFECTIVE SCHNEE-MOREHEAD<sup>®</sup>, INC. PRODUCT. SCHNEE-MOREHEAD<sup>®</sup>, INC. SHALL NOT OTHERWISE BE LIABLE FOR LOSS OF DAMAGES, WHETHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL, REGARDLESS OF THE LEGAL THEORY ASSERTED, INCLUDING NEGLIGENCE, WARRANTY OR STRICT LIABILITY.**

Complete technical information is available from Schnee-Morehead<sup>®</sup>, Inc. For technical assistance, customer service and general information call:

**1-800-TRUSTSM  
1-800-878-7876**

### **SCHNEE-MOREHEAD<sup>®</sup>, INC.**

111 N. Nursery Road  
Irving, TX 75060  
972-438-9111 Fax: 972-554-3939

[www.trustsm.com](http://www.trustsm.com)