

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION:

Acryl-R® SM5430 is a non-skinning, non-drying roof 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.

ADVANTAGE:

- Excellent adhesion to Galvalume®, Galvalume-PLUS®, ACRYLUME®, 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 gunability during field application to end laps
- No priming required
- Non-skinning, Non-hardening
- Adheres to concrete and most construction surfaces

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
- May be used in concealed curtainwall applications

SPECIFICATION COMPLIANCE:

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

AAMA 809.2:
Sealant meets this specification

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

INSTALLATION:

SM5430 can be applied from 10.1 oz. (300 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.

PACKING:

- 10.1 oz. (300 ml) plastic cartridges, 30 cartridges/ case
- 5 gallon (18.95 liter) straight side plastic pails
- 50 Gal. (182.95 Liters) drums with poly liner

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
VOC	190.5 g/L
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®, GALVALUME PLUS®, ZINCALUME®, ACRYLUME®, KYNAR 500®, 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®, GALVALUME PLUS®, ZINCALUME®, KYNAR 500®, ACRYLUME®, 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)

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