

TECHNICAL DATA

Tacky Tape[®] SM5230 Metal Building Sealant

PRODUCT DESCRIPTION:

Tacky Tape[®] SM5230 is a 100% solids, asbestos-free, high performance grade butyl tape sealant that is a highly rubbery, tacky, reinforced compound designed for sealing metal lap joints in the metal building industry. It is easy to apply and compress during installation. It exhibits excellent application and performance characteristics over a wide temperature range and will not become brittle, crack or flow during service. It is available in various sizes supplied in ready-to-use rolls and pre-cut endlap pads for standing seam roof (SSR) applications. It is also available in double and triple bead rolls and endlap pads.

TYPICAL USES:

SM5230 is designed to seal and prevent the entry of dust, air and moisture and assure a weather tight seal in metal building details.

- Metal rib and end joints
- Standing seam roof endlaps
- Sealing roof curbs, roof jacks, and skylights
- Sealing polyethylene sheeting
- Sealing air conditioning equipment
- Window and door flanges

ADVANTAGES:

- Excellent for sealing Galvalume[®], Galvalume Plus[®], Zinalume[®] and KYNAR[®] 500
- Adheres to oily Galvalume[®]
- Will not corrode Galvalume[®], Galvalume Plus[®] and KYNAR[®] 500
- Meets ASTM and Federal Standards
- Non-staining
- Permanently flexible
- Resistant to ultraviolet and infrared radiations, precipitation, atmospheric hydrocarbon contamination and extremes in temperature

APPLICATION:

Optimally, a clean dry uncontaminated surface is desired to obtain intimate adhesion, but realistically there are field situations that prevent complete

control of surface conditions. Obviously, excessive oil, caked-on dirt, free standing water and ice or snow must be removed before sealant tape is applied. This sealant tape can be applied in cold temperatures. Temperatures below 40°F (4.44°C) often promote the formation of condensation and frost substrates. These should be removed before the sealant tape is applied in order to achieve optimum performance. Remove condensation and other moisture with a clean dry cloth and isopropyl (IPA) alcohol. Follow this with a dry cloth wipe.

A light film of lubricant used in roll forming is usually present on unpainted surfaces, such as Galvalume[®] and should not adversely affect the sealant tape performance. If excess lubricant is present, wiping with a clean cloth should minimize it.

Position tape sealant on required seal area with release backing paper on top. The tape sealant should be positioned on the “wet”, or entry sides of the fasteners to prevent passage of dynamic weather elements. Using a smooth even hand motion, press the tape to the surface to make intimate contact without distorting the tape sealant. Avoid lapping the tape by butt joining tapes at transition points. Remove release-backing paper prior to mating adjoining surface and fastening. **IF SEALANT TAPE IS IN DIRECT CONTACT WITH ANY OTHER SEALANT OR ELASTOMER, A COMPATIBILITY TEST MUST BE CONDUCTED PRIOR TO USE.**

SM5230 is compatible with the following Schnee-Morehead products:

- Acryl-R[®] SM5430 Non-Skinning SSR Sealant
- Acryl-R[®] SM5504 Narrow Joint Sealant
- Acryl-R[®] SM5522 Acrylic Sealant
- Permathane[®] SM7100 and SM7108 Polyurethane Sealants

LIMITATIONS:

Not recommended for:

- For applications requiring continuous water submersion, consult Schnee-Morehead field sales representative.
- Joints that are not mechanically fixed.
- Do not apply sealant to wet or frost bearing surfaces. See application paragraph.

TYPICAL PROPERTIES

Property	Typical Values	Test Method
Specific Gravity:	1.47	ASTM D 792
Density:	13.54 Lbs./Gal. 1.62 Kg/Liter	SM Lab Test
Percent Solids:	100%	SM Lab Test
Peel Adhesion PIW (N/mm ²) / % Cohesive Separation		AAMA 800
Galvalume	16 (2.8) / 100	1/16" (0.158cm) thick
Anodized Aluminum	16 (2.8) / 100	
Mill Finish Aluminum	16 (2.8) / 100	
Polyvinylidene Fluoride	17 (2.8) / 100	
PVC Plastisol	17 (2.8) / 100	
Polyester	16 (2.8) / 100	
Siliconized Polyester	16 (2.8) / 100	
Tensile Adhesive Strength PSI (kPa) % Cohesive Separation	20 (138) 95	ASTM C 907
Yield Strength PSI (kPA)	8 (55)	ASTM C 908
% Elongation	>1000	ASTM C 908
Sag	None	AAMA 800
Vehicle Migration	Pass, <1/8" (<3.175mm)	AAMA 800
Water Resistance	No Effects	AAMA 800
Hardness (Shore 00)	50-60	AAMA 800
Crazing to Acrylic plastics	None	MIL-S-11030C
Cone Penetration (0.1mm) @77°F (25°C) @120°F (48.8°C) @0°F (-17.7°C)	85-100 125-135 45-55	ASTM D 217 300 g cone (5 Sec)
Application Temperature Range	-5°F to 120°F (-20°C to 49°C)	SM Lab Test
Service Temperature Range	-40°F to 200°F (-40°C to 93°C)	SM Lab Test
Color	Light Gray	Visual SM Test
Weatherability QUV, 340A lamp 1000 Hrs	Excellent, no cracking, chalking, wash-off or flow (sag)	SM Lab Test
Water Penetration	Pass – No leakage	ASTM E 1646
Air Leakage At 1.57 PSF	0.051 CFM/FT ²	ASTM E 1680
At 6.24 PSF	0.068 CFM/FT ² 0.1024 CFM/FT ² 0.1365 CFM/FT ²	
Shelf Life	18 months when stored at or below 100°F (38°C)	

SPECIFICATION COMPLIANCE:

AAMA 804.3
AAMA 807.3
Federal Specification TT-C-1796A, Type II, Class B
USDA Acceptable

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- Zinalume® is a registered trademark of BHP Steel
- KYNAR® 500 is a registered trademark of Elf Atochem North America, Inc.
- Tacky Tape®, Permathane®, and Acryl-R® are registered trademarks of Schnee-Morehead, Inc.

Refer to Material Safety Data Sheet (MSDS) for further information.

For medical emergency only,
call Chem Trec 1-800-424-9300

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Complete technical information is available from Schnee-Morehead® Inc. For technical assistance, customer service and general information, call **1-800-878-7876**

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