GACOSEAL™ SM5227
METAL BUILDING SEALANT TAPE

A. DESCRIPTION:

GacoSeal™ SM5227 is 100% solids, asbestos-free 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 end lap pads for standing seam roof (SSR) applications. It is also available in double and triple bead rolls and end lap pads.

B. TYPICAL USES:

GacoSeal™ SM5227 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 end laps
- Sealing roof curbs roof jacks and skylights
- Sealing polyethylene sheeting
- Sealing air conditioning equipment
- Window and door flanges
- Sub sill air and water seal between Wood & Concrete.

C. ADVANTAGE:

- Excellent for sealing Galvalume®, Galvalume Plus®, Zincalume® 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

D. SPECIFICATION CONFORMANCE

Federal Specification TT-C-1796A, Type II, Class B
USDA/FDA: Conforms to USDA/FDA Incidental Food Contact Guidelines

E. INSTALATION:

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.

GacoSeal™ SM5227 is compatible with the following Amrize products:

- GacoSeal SM5430 Non-Skinning Sealant
- GacoSeal SM7713 Silyl-Modified Sealant
- GacoSeal SM7120 PU Polyurethane Sealant

F. LIMITATIONS: (Not recommended for)

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

G. TYPICAL PROPERTIES:

Property	***Typical Values***	***Test Method***
Specific Gravity:	1.47	ASTM D 792
Density:	13.54 Lbs/Gal 1.62 Kg/Liter	Amrize Lab Test
Percent Solids:	100%	Amrize Lab Test
Peel Adhesion PIW (N/mm^2) / % Cohesive Separation Galvalume Anodized Aluminum Mill Finish Aluminum Polyvinylidene Fluoride PVC Plastisol Polyester Siliconized Polyester	 16 (2.8) / 100 16 (2.8) / 100 16 (2.8) / 100 17 (2.8) / 100 17 (2.8) / 100 16 (2.8) / 100 16 (2.8) / 100	AAMA 800 1/16" (0.158cm) thick
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)	Amrize Lab Test
Service Temperature Range	-40°F to 200°F (-40°C to 93°C)	Amrize Lab Test
Color	Light Gray	Visual (Amrize) Test
Weatherability QUV, 340A lamp 1000 Hrs	Excellent, no cracking, chalking, wash-off or flow (sag)	Amrize Lab Test

6" Static Water Pressure		Pass – No Leakage	ASTM Proposed Test Method
Water Penetration		Pass – No leakage	ASTM E 1646
Air Leakage	At 1.57 PSF	0.051 CFM/FT^2	ASTM
		0.068 CFM/FT^2	E 1680
	At 6.24 PSF	0.1024 CFM/FT^2	
		0.1365 CFM/FT^2	
Shelf Life		18 months when stored at or below 100°F (38°C)	

- Galvalume® and Galvalume-Plus® are registered trademarks of BIEC International.
- ACRYLUME® is a registered trademark of United States Steel Corporation.
- Kynar® 500 is a registered trademark of Arkema, Inc.
- ZINCALUME® is a registered trademark of BlueScope Steel Limited.

This product is Manufactured for industrial use only.

** For specific Health and Safety information, please refer to applicable Safety Data Sheet (SDS)*