



PRODUCT DATA

562

**PREFORMED BUTYL TAPE / BEADS
FOR THE
PRE-ENGINEERED METAL BUILDING
INDUSTRY**

DESCRIPTION

562 is compounded to meet pre-engineered metal building specifications. The material is soft, resilient and easily worked by hand, yet adheres instantly to most uncleaned surfaces. 562 has excellent weathering characteristics while retaining adhesion and elasticity in both hot and cold environments. Material should be tested prior to application.

Spacer cubes can be incorporated (562C.12) to prevent bottoming out of sealant when fasteners are installed. They also prevent sealant from pumping out of the joint due to thermal expansion and contraction of roof panels. 562 has outstanding webbing and elongation properties along with excellent adhesion to glass, plastic (but not plasticized PVC), polyethylene, galvanized aluminum, galvalume, siliconized polyester, polyurethane and polyvinyl fluoride painted substrates. Preformed butyl tapes allow the erector precise control of volume and sealant placement on roof laps, end laps and side laps of metal buildings.

562 is chemically inert and is non-corrosive to paint, metal, aluminum, copper, plastic and will not swell rubber.

PHYSICAL PROPERTIES

Property	Test Method	Typical Values
Color	ASTM D1729	562.12: Gray 562C.12: Gray 562.11: Black
Odor		None
Application Temperature		40°F to 120°F (4°C to 49°C)
Service Temperature		-70°F to 220°F (-57°C to 104°C)
Cone Penetration, 300-g	ASTM D217	@ 0°F ≥ 45 dmm @ 77°F = 82-92 dmm @ 120°F ≤ 145 dmm
% Solids	ASTM C771	>99% by weight
Specific Gravity	ASTM D297	1.38 ± 0.05 g/cm ³
Weight per Gallon		11.5 ± 0.5 pounds per gallon
Tensile Strength	ASTM C907	562.12: 23 psi with adhesive failure 562C.12: 20 psi with adhesive failure
Yield Strength and Elongation	ASTM C908	6.4 psi with cohesive failure 1125% elongation
Elongation and Webbing	TP-012	500% @ 32°F without water leaks 1200% @ 77°F without water leaks

Property	Test Method	Typical Values
Flexibility	ASTM C765	Passes 3/8-inch mandrel bend at -70°F
180-degree Peel Strength	ASTM D3330/D3330M, Method C	Stainless steel, average peel force: 7.62-lbf/inch (33.90-N/25-mm) Stainless steel, ultimate peel force: 12.10-lbf/inch (53.82-N/25-mm)
Heat Stability	6-months @ 180°F	No hardening, crusting or softening of surface. No surface crazing after cooling to 75°F and bending over a 1/4-inch mandrel.
Oil Migration	AAMA 800-08 ASTM C772	21-days @ 77°F, no visible bleed-out or migration. 14-days @ 180°F, no visible bleed-out or migration. 21-days exposure from a UVA-340 type sunlamp.
Staining	ASTM D925, Method A – 7-days @ 175°F	No contact stains.
	ASTM D925, Method B – 7-days UVA-340 sunlamp @ 140°F	No migration stains.
Corrosive Effects	TP-008	No evidence of pitting or corrosion of aluminum or galvanized steel after 7-days aging of the sealant on metal in water.
Copper Staining	TP-009	No evidence of any darkening, etching or salt deposits on copper after 7-days storage of polished copper in the sealant @ 158°F.
Stress Cracking	ASTM D3929	No stress cracking of sealant or acrylic plastic
Paintability		Paintable
Water Resistance	AAMA 800, Section 6.8	Pass
Water Resistance	60-days water immersion @ 120°F	Maintains adhesion to galvanized metal, aluminum-zinc coated steel and siliconized polyester painted surfaces.
Chemical Resistance	168-hour immersion @ room temperature	No weight loss or change in consistency exposed to: <ul style="list-style-type: none"> - 60% ammonium nitrate solution - 25% urea solution - Isopropanol - N-propanol - Methyl ethyl ketone (MEK) Not resistant to aliphatic or aromatic solvents. Not resistant to gasoline, diesel or kerosene.
Weatherability	ASTM D750	No apparent change of physical properties after 1000-hours QUV exposure. Slight discoloration.
Discoloration from Ultraviolet Light Exposure	ASTM D1148, 2000-hrs UVA-340	No color change.

Property	Test Method	Typical Values
Paper Release	TP-013, Method B	Release paper comes off sealer easily and clean at temperatures up to 158°F.
Dimensional Stability (Cold Flow)	TP-010	Roll of sealer will not sag more than 3/4-inch when hung vertically for 48-hours.
Static Water Head Test	ASTM E2140	Passes a water pressure of 6-inches.
Shelf Life		Minimum 1-year when stored in the original container at normal warehouse temperatures.

REGULATIONS and SPECIFICATIONS

AAMA:	Meets the requirements of 802.3, Type II and 804.3 of the American Architectural Manufacturers Association.
Federal Specification:	TT-C-1796A, Type II, Class B.
LEED:	Conforms to Leadership in Energy and Environmental Design 2009 for New Construction, Indoor Environmental Quality: Section 4.1, Low-Emitting Materials: Adhesive & Sealants (SCAQMD) Rule # 1168, VOC limits.
NAAMM:	Meets standard SS-1C-68.
FDA Regulation:	Meets U.S. Food and Drug Administration (FDA) regulation 21 CFR 175.105 – Indirect food additives: Adhesives and components of coatings. For substances that may come into contact with food as part of packaging or processing equipment but are not intended to be added directly to food.
USDA:	Is acceptable to the U.S. Department of Agriculture for use in meat and poultry processing area under federal inspection.

deVan Sealants, Inc.

6301 Prescott Avenue

St. Louis, MO 63147

Phone (314) 383-1941 · Fax (314) 383-6491

www.devansealants.com

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