



PRODUCT DATA

562.12

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

DESCRIPTION:

562.12 is compounded to meet pre-engineered metal building specifications. The material is soft, resilient and easily worked by hand; yet it adheres instantly to almost any normal surface without being cleaned. Material should be tested prior to application. 562.12 has excellent weathering characteristics while retaining adhesion and elasticity in both hot and cold environments.

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 or contraction of roof panels. 562.12 has outstanding webbing and elongation properties along with excellent adhesion to glass, plastic, 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.

562.12 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
Odor		None
Service Temperature		-70°F to 220°F
Cone Penetration, 300-g	ASTM D217	@ 0°F ≥ 45 dmm @ 77°F ≤ 120 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	24 psi
Flexibility	ASTM C765	Passes 3/8-inch mandrel bend at -70°F
Elongation and Webbing	TP-012	500% @ 32°F without water leaks 1200% @ 77°F without water leaks
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.

Property	Test Method	Typical Values
Staining	ASTM D925, Method A – 7-days @ 175°F	No contact stain.
	ASTM D925, Method B – 7-days UVA-340 sunlamp @ 140°F	No migration stain.
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.
Paintability		Paintable
Water Resistance	60-days water immersion @ 120°F	Maintains adhesion to galvanized metal, aluminum-zinc coated steel and siliconized polyester painted surfaces.
Chemical Resistance		Excellent resistance to ozone, water and alcohols. Good resistance to weak acids and bases. Fair resistance to ketones. Poor resistance to oils, aliphatic and aromatic solvents.
Weatherability	ASTM D750	No apparent change of physical properties after 1000-hours QUV exposure. Slight discoloration.
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	MBMA – Ice Damming Test	Passes 5-inch simulated water head test.
Shelf Life		Minimum 1-year when stored in the original container at normal warehouse temperatures.

REGULATIONS and SPECIFICATIONS:

ASTM E2140:	Meets the requirements of Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head.
Federal Specification:	TT-C-1796A, Type II, Class B (supercedes MIL-C-1896B).
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 FDA Regulation, food additives, sub-part F, sub-paragraph 175.105 being composed of ingredients acceptable for packing and transporting food.

USDA:

Is acceptable to the U.S. Department of Agriculture for use in meat and poultry processing area under federal inspection.

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