TECHNICAL DATA

MANUS-BOND 50A-HV

BUTYL RUBBER SEALING & STANDING SEAM COMPOUND

1. PRODUCT DESCRIPTION

Manus-Bond 50A-HV is a high solids, non-drying, self-healing synthetic rubber based sealant for reducing sound and vapor transmission, standing roof seams, wall panels, insulated metal panel and metal building construction. Provides excellent adhesion to ZINCALUME®, KYNAR500®, stainless steel, polyvinylidene fluoride, Galvalume®, Galvalume® Plus, aluminum, concrete, gypsum, wood surfaces, foam boards, plastic and fiberglass. 50A-HV is a VOC compliant, non-drying, non-bleeding formula which remains flexible to form a long lasting resilient seal. This non-webbing formulation exhibits excellent tackiness for permanent bonding. 50A-HV contains an anti-microbial agent which inhibits the growth of mildew and bacteria.
Canadian Food Inspection Agency (CFIA) Accepted. USDA accepted.

Conforms to the following specifications:

- ASTM E2140-01 Standard Test Method for Water Penetration of Metal Roof Panels by Static Water Pressure Head
- ASTM E1646-95 (2003) Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference
- ASTM E1680-95 (2003) Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems
- AAMA 800 flexibility cold testing of -100ºF
- AAMA 809 Specifications for Non-Drying Sealants
- Federal Specification TT-C-1796A for Caulking Compounds, Metal Seam, and Wood Seam (Type I)

2. TECHNICAL DATA:

Viscosity (Spindle T-F @ 2.5rpm)	Approx. 2 to 3.5 million cps
Extrudability	26 sec. per 20 grams through 0.125” orifice @ 50psi
VOC Content (via EPA Method 24)	3.47%
Low-temperature flexibility (AAMA 800)	No loss of adhesion
Weight loss (ASTM D2453)	5-8%
Boeing Flow (ASTM D2202)	Nil
Specific Gravity (ASTM D1475)	1.52-1.58
Weight % Solids (ASTM C681)	93.5-96.5%
Heat Aging	No loss of surface tack or adhesion
Weathering (ASTM G154, 1000 hours QUV exposure)	No cracking, bleeding or loss of rubbery characteristics
Oil Migration (AAMA 809 and Federal Specification TT-C-1796A)	Does not exude oil when applied between two metal panels bolted together allowing 1/16” seal.

	Assembly conditioned for one week at 158ºF
Adhesion (ASTM C794)	Excellent
Wet flammability (ASTM D56)	158ºF Flash Point
Resealability	Sealant will reseal and transfer to male joint at 10ºF
Application Temperature	-5ºF to 120ºF (-20ºC to 49ºC)
Service Temperature	-100ºF to 200ºF
Non-Staining (ASTM D925, Method A)	Sealant will not stain a painted surface

3. COLORS

White and Gray

4. PACKAGING

10.1 & 28 fl.oz. cartridges. 10 and 20 fl.oz. sausage packs. 1, 5, & 55 gallon containers.

5. STORAGE LIFE

For maximum shelf-life, store unopened product at or below 90ºF (32ºC)

18 months minimum in unopened containers.

6. APPLICATION

Potential applications include; sealing base track to slab, polyethylene vapor barrier sheet overlaps, insulated panel top caps and panel joints. Surfaces must be clean, dry and free of dust or other foreign matter. Keep 50A-HV from sight line when painting is necessary. Some applications may not be compatible with this product. Testing suitability for intended application before proceeding with full application is recommended.

7. PRECAUTIONS

CAUTION: COMBUSTIBLE LIQUID & VAPOR. Contains mineral spirits. Keep away from heat and flame. Avoid skin contact. Wash thoroughly after handling. Avoid breathing vapor. Use with adequate ventilation. Do not take internally. See MSDS for additional information. Keep out of reach of children.

8. LIMITED WARRANTY:

Any goods prove defective will be replaced or the purchase price refunded. The limited warranty described herein is in lieu of any other warranty, expressed or implied, including any implied warranty of merchantability or fitness for a particular use. The user shall determine suitability of the product for its intended use. Liability for any incidental or consequential damage or loss is excluded. The user assumes all risks of the product's use, handling and storage.

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