



# TECHNICAL DATA

## MANUS-BOND SIP-seal VLM HIGH PERFORMANCE BUILDING ENVELOPE ADHESIVE/SEALANT

### 1. PRODUCT DESCRIPTION:

Manus-Bond SIP-seal VLM (very low modulus) exhibits excellent adhesion to many substrates including aluminum, brass, steel, Kynar®, Galvalume®, painted surfaces, vinyl, FRP, glass, concrete, marble, OSB, EPS, wood and many plastics. Cures fast, even at low temperatures. Manus-Bond SIP-seal VLM is highly weather resistant and can be painted with most paints. Manufactured from high grade polyether technology Manus-Bond SIP-seal contains no solvents or isocyanates and is non-yellowing. Conforms to ASTM C920, Type S, Grade NS, Class 50, Use T, NT, M, A, G and O. USDA accepted.

### 2. TECHNICAL DATA:

<b>Specific Gravity</b>	1.40-1.44
<b>Color</b>	White, Gray, Black *Other colors available upon request
<b>Skin Time @ 75°F &amp; 50%RH</b>	30 minutes
<b>Cure Rate @ 75°F &amp; 50%RH for 24 hours</b>	0.125"
<b>Hardness, Shore A</b>	15
<b>Sag</b>	Nil
<b>100% Modulus</b> ASTM D412 *Rate = 2"/minute	20 psi
<b>Tensile Strength</b> ASTM D412	125 psi
<b>% Elongation</b>	1200%
<b>Peel Strength</b> ASTM C794 (steel to stainless steel)	23 pli
<b>Service Temperature Range</b>	-75°F to 300°F
<b>Water Vapor Transmission (ASTM E96)</b>	1.59 perm-inch
<b>Movement Capability</b>	±50%
<b>UV Resistance</b>	Excellent
<b>VOC Content</b>	12 grams/liter

\*Above values are typical values for the material, but not intended for use in specifications. Field conditions may yield different results.

3. **PACKAGING:**  
10.1 and 28fl.oz. cartridges, 10 and 20 fl.oz. sausage packs, 1, 5 and 52 gallon containers
4. **SURFACE PREPARATION:**  
Apply to clean, dry surfaces free of contaminants that can adversely affect adhesion. Remove all old sealant before applying product. Some substrate materials may not be compatible with this product. Testing substrate compatibility with this product before full application is recommended.
5. **PAINTING & APPLICATION:**  
Cured product may be painted with most industrial & consumer paints. Testing prior to painting is recommended. Apply in continuous beads in accordance with SIP manufacturer's manual.
6. **STORAGE LIFE:**  
For maximum shelf life, store unopened product at or below 80°F.  
12 months = cartridges and sausage packs  
6 months = 1, 5 and 55 gallon containers
7. **PRECAUTIONS:**  
Some applications may not be compatible with this product. Testing suitability for intended application before proceeding with full application is recommended. Use with adequate ventilation. Inhalation of vapor during application and cure may cause slight eye or throat irritation. In case of contact with eyes, lips, or mouth, flush thoroughly with water. If irritation persists, consult a physician. Avoid repeated, prolonged contact with skin. See MSDS for additional information. **KEEP OUT OF REACH FROM CHILDREN.**
8. **TECHNICAL SERVICE:**  
Manus technical representatives are always available to provide assistance. Please contact our Technical Service Department with your questions or requests for specific applications.
9. **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.

**MANUS PRODUCTS INC.**  
**MPI**

866 INDUSTRIAL BLVD WEST • WACONIA, MINNESOTA 55387  
PHONE: (952) 442-3323  
FAX: (952) 442-3327  
EMAIL: [info@manus.net](mailto:info@manus.net)  
[www.manus.net](http://www.manus.net)