



# TECHNICAL DATA

## Manus Bond Window & Door Foam

### 1. PRODUCT DESCRIPTION:

Manus Bond Window & Door Foam is a one-component, home energy saving polyurethane foam sealant. Manus Bond Window & Door Foam is specifically designed to seal gaps and penetrations to form a permanent insulating barrier, preventing undesirable water and air through building envelopes. This low pressure build formulation will not bow or distort windows and doors. Contains non-ozone depleting hydrocarbon propellant. Saves energy.

- Meets AAMA 812 Specifications

### 2. TECHNICAL DATA:

|  |   |
|--|---|
| <b>Specific Gravity</b>  | ~1.00-1.10                              |
| <b>Tack Free Time @ 75°F &amp; 50%RH</b>                               | ~ 5 minutes                             |
| <b>Cuttable and full cure @ 75°F &amp; 50%RH</b><br>*1 inch bead       | < 1 hour / 12-24 hours                  |
| <b>VOC Content</b>   | <16% by weight (165g/l)                 |
| <b>Air Barrier Properties</b><br>*ASTM E-2178<br>@1.57 psf             | <0.00028 cfm/ft <sup>2</sup>            |
| <b>Closed Cell Content</b><br><b>Open Cell Content</b><br>*ASTM D-6226 | 67% Closed cell<br>33% Open Cell        |
| <b>R-value</b>   | 4.7 per inch                            |
| <b>K-Factor</b><br>*ASTM C518-Initial                                  | 0.213 BTU-inch/ft <sup>2</sup> •h•°F    |
| <b>Tensile Strength</b><br>*ASTM D-1623                                | 12 psi                                  |
| <b>Compression Strength</b><br>*ASTM D-1621                            | 6.38 psi                                |
| <b>Service Temperature Range</b>                                       | -200°F to 240°F                         |
| <b>Fire Rating</b><br><b>UL723/ASTM E84</b>                            | Flame Spread: 25<br>Smoke Developed: 50 |
| <b>Fire Rating</b><br><b>CAN/ULC S102</b>                              | Flame Spread: 15<br>Smoke Developed: 25 |
| <b>NFPA 30B Classification</b>   | Level 2 Aerosol                         |

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

\* The below yields are based on theoretical calculations.

### Theoretical Yield\*

|                        | 1/4"    | 3/8"    | 1/2"    | Volume              |
|------------------------|---------|---------|---------|---------------------|
| Manus Bond<br>W&D Foam | 4403 ft | 1957 ft | 1101 ft | 1.5 ft <sup>3</sup> |

3. **PACKAGING:**  
Convenience packaged per order in 24 oz cans.
4. **APPLICATION:**  
Read back of can for directions. Attached gun dispenser to can, shake well and begin applying. Pulling gun dispensers trigger at desired rate for proper metering of bead. Manus Bond Window & Door Foam be reused as long as gun dispenser remains attached to pressurized can. Larger gaps filled will take longer to fully cure. Foam will expand 2-3 times the dispensed bead within the first hour. Fill gap only a 1/3 of the way to allow for expansion. Will not harm electrical wire insulation, PVC, rubber and plastics. Before use read Surface Preparation and review MSDS.
5. **SURFACE PREPARATION:**  
Apply to clean 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. Optimum chemical temperature is between 65°F and 80°F.
6. **PAINTING:**  
Cured product may be painted with most industrial & consumer paints. Painting this product will protect it against UV rays. Testing prior to painting is recommended.
7. **STORAGE LIFE:**  
For maximum shelf life, store unopened product upright at or below 80°F.  
15 months
8. **PRECAUTIONS:**  
The propellant is extremely flammable during dispensing and cure. Do not puncture, incinerate or store above 120°F. Some applications may not be compatible with this product. Some cleaners, solvents 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.**
9. **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.
10. **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.**

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