



# TECHNICAL DATA

## Manus Bond VaPerm AirBan Liquid Membrane

### 1. PRODUCT DESCRIPTION:

Manus Bond VaPerm AirBan Liquid Membrane by Manus Products, Inc is the latest advancement in liquid applied building envelope membranes. A hybrid elastomeric adhesive/sealant that forms a permanently flexible barrier preventing undesirable water and air through building envelopes. VaPerm AirBan is breathable—allowing damp surfaces to dry.

A virtual living skin for buildings that bonds to a wide variety of building envelope substrates including, gypsum board, OSB, plywood, concrete, CMU, cement board, steel, aluminum, Kynar®, Galvalume®, painted surfaces and many vinyls and plastics. VaPerm AirBan liquid membrane is above grade roller applied to produce a seamless, highly durable, weatherproof membrane over above grade structural surfaces and back-up CMU walls prepared with Manus Bond 75AM and Manus Bond Perm-Flash. VaPerm AirBan's unique moisture cure formulation cures fast and can be applied over a wide temperature range. It cures in the presence of water and remains flexible, and has exceptional resistance to weathering, UV light and temperature extremes. VaPerm AirBan will not tear and remain durable when exposed to weather during construction.

VaPerm Airban is an environmentally compliant coating that is classified as very low VOC, does not contain water, solvents or isocyanates and is mildew resistant when fully cured. USDA accepted.

### 2. TECHNICAL DATA:

<b>Specific Gravity</b>	1.5-1.7
<b>Color</b>	White (Custom colors available)
<b>Skin Time @ 75°F &amp; 50%RH</b>	2 hours
<b>Cure Rate @ 75°F &amp; 50%RH</b>	12 mils / 12 hours
<b>VOC Content</b>	30 grams/liter maximum
<b>Total Solids</b>	98%
<b>Hardness, Shore A</b>	20-25
<b>Tensile Strength</b> ASTM D412	110 psi
<b>Water Vapor Transmission (ASTM E96)</b>	23 @ 12 mils
<b>% Elongation</b>	300%
<b>Peel Strength</b> ASTM C794	30 pli
<b>Service Temperature Range</b>	-75°F to 300°F
<b>Corrosive Properties</b>	Non-corrosive
<b>Staining</b>	Passes

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

3. **PACKAGING:**  
Bulk packaged in 1, 5 and 55 gallon containers. Convenience packaged per order in 10.1 and 28fl.oz. cartridges
4. **APPLICATION:**  
VaPerm AirBan will produce an opaque membrane when applied at the recommended 12-15 wet mils to simplify quality control and inspection. At 12-15 mils the estimated coverage is 80 square feet per 1 gallon. Mix well before use. Roller apply to CMU back-ups and structural walls using diagonal and vertical strokes. Ensure there are no voids or pinholes in membrane. Bonds to damp substrates and cures in wet weather. Before use read Surface Preparation and review MSDS. Not for use below grade or in locations designed for continuous water immersion. Not for use as liquid flashing membrane. Use Manus Bond Perm-Flash.
5. **SURFACE PREPARATION:**  
Apply to clean surfaces free of contaminants that can adversely affect adhesion. Remove all old sealant and damaged sheathing before applying product. Repair cracks larger than ½ inch on structural sheathing. Some substrate materials may not be compatible with this product. Testing substrate compatibility with this product before full application is recommended.
6. **PAINTING:**  
Cured product may be painted with most industrial & consumer paints. Testing prior to painting is recommended.
7. **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
8. **PRECAUTIONS:**  
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.

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