



TECHNICAL DATA SHEET  
**Air-Bloc® 33MR**  
 Fluid Applied, Vapor Permeable,  
 Air & Weather Barrier Membrane

**Typical Physical Properties**

<b>-Color</b>	Black	<b>-Watertightness</b> CAN/CGSB-37.58-M86	Pass
<b>-Solids by Weight</b>	65%	<b>-Water Vapor Permeance</b> ASTM E96 @ 1/8" (3 mm) wet film	11.6 perms (655 ng/Pa.m <sup>2</sup> .s)
<b>-Weight/unit volume</b>	12 lbs/gal (1.4 kg/l)	<b>-Air Permeability Tests</b> ASTM E283, Applied to CMU	
<b>-Drying Time @ 50% R.H.</b> +20°C (68°F) on Dry Substrate	2 Hours to touch dry 24 Hours to firm dry	75 Pa @ 70°F	0.0016 cfm/ft <sup>2</sup>
<b>-Service Temperature</b>	-40°F to +185°F (-40°C to +85°C)	250 Pa @ 70°F	0.0034 cfm/ft <sup>2</sup>
<b>-Application Temperature</b>	40°F to 122°F (+4°C to +50°C)	500 Pa @ 70°F	0.0050 cfm/ft <sup>2</sup>
<b>-Tensile Strength,</b> ASTM D412	125 psi (860 kPa)	ASTM E2357, Assembly Air Leakage Testing	Pass
<b>-Elongation, typical</b> ASTM D412	200%	ASTM E2178 @ 75Pa	0.0016 cfm/ft <sup>2</sup> (0.008 L/s.m <sup>2</sup> )
<b>-Aging - Long Term Flexibility</b> CGSB 71-GP-24M	No fracturing	<b>-Resistance to Gust Wind Load</b>	Meets Mass/Canadian code requirements for air leakage @ 3000Pa gust load suction pressure
<b>-Nail Sealability</b> ASTM D 1970	Pass	<b>-Chemical Resistance</b>	Resists mild acids and alkalis, oil, grease, petroleum solvents and salt solutions
<b>-Resistance To Mold, Mildew &amp; Fungal Growth</b> ASTM D5590 -00	-0- No Growth	<b>-Fire Testing</b>	Complies with NFPA 285 in various wall assemblies
<b>-Weather Resistance</b> Q-UV Exposure - 73 daily cycles of UV and water spray with no observable deterioration	Pass	<b>-Flame Spread</b> ASTM E84	25
<b>-VOC content</b>	100 grams per liter, max.	<b>-Smoke Developed</b> ASTM E84	85

**Reference Tests & Standards**

<b>ASTM E2357</b> Air Barrier Assembly Test	<b>ASTM D5590</b> Mold/Mildew/Fungus Resistant	<b>NFPA Class A, UBC Class 1</b>	<b>Massachusetts Commercial Energy Code</b> (780 CMR, Chapter 13)
--	---	----------------------------------	--

**Description**

**Air-Bloc® 33MR** is a UV & fire-resistant, fluid applied, elastomeric membrane designed to provide a permeable air & water barrier when applied to above-grade wall assemblies. It is single-component, water-based and cures to a tough monolithic rubber-like membrane, which resists air leakage, water penetration and long term weathering. **Air-Bloc® 33MR** combines the proven performance of **Air-Bloc® 33MR** with the addition of Henry antimicrobial technology to create an integral mold resistant membrane.

## Air-Bloc® 33MR UV Resistant Vapor Permeable Air and Weather Barrier Membrane

### Features

---

- Seamless, vapor permeable rubberized (elastomeric) membrane for above grade walls
- UV resistant, fire-resistant, mold/mildew/fungus resistant
- Water-based, does not contain organic solvents and is environmentally friendly
- Suitable for permanent weather exposure as commonly found in open-joint wall cladding systems
- Excellent adhesion to most wall construction surfaces -can be applied to damp concrete
- Meets highest industry performance standards

### Product Sizes

---

5 gal pails, 55 gal drums

### Uses

---

**Air-Bloc® 33MR** is used in construction of high performance wall assemblies requiring vapor permeability along with water, UV, weather and fire resistance. Integrated with Blueskin flashing and accessories to form a complete wall system meeting highest industry performance standards. Commonly used on variety of wall substrates requiring long term weather exposure prior to cladding installation or with open-jointed rain screen type claddings.

### Limitations

---

Must be protected from damage during construction. KEEP FROM FREEZING. Do not apply to wet surfaces.

**Air-Bloc® 33MR** shall not be applied when ambient (air) and substrate temperatures are below 40°F (5°C). The product should not be applied if it is raining, or if the possibility of rain is likely within 16 hours. The product should not be applied if it is expected that the ambient temperature will fall below 32°F within 24 hours. Following installation of **Air-Bloc® 33MR** in new building construction, CMU walls where **Air-Bloc® 33MR** has been applied must be protected at the roof line to prevent water infiltration into the wall cavity.

In hot weather or direct-sun applications over porous substrates, such as concrete, rapid surface drying can form blisters. A thin 'prime coat' application to substrate, which is allowed to dry, often prevents blister formation in subsequent application. Alternatively a two coat application vs. single heavy coat – with back rolling of base coat – also aids in prevention of blistering in hot weather.

### Surface Preparation

---

All surfaces must be sound, dry, clean and free of oil, grease, dirt, excess mortar or other contaminants. New concrete should be cured for a minimum of 36 hours before **Air-Bloc® 33MR** is applied. Concrete surfaces should be free of large voids and spalled areas. Joints between panels of exterior grade gypsum, plywood and rigid insulation up to ¼" wide shall be filled with a trowel application of **Air-Bloc® 33MR** and reinforced with a strip of 2" wide glass fiber tape such as **Henry #183 Yellow Glass Fabric** prior to application of liquid membrane. Joints between panels of exterior grade gypsum or plywood wider than ¼" should be sealed with **Blueskin®** membrane adhered to the primed substrate (use **Blueskin® Primer** or **Henry #545 Aquatac™**) and lapped a minimum of 3" on both sides of the crack. Joints wider than ¼" between panels of rigid insulation are not permitted. Mortar joints on CMU walls should be struck flush with block surface. Cracks in masonry and concrete up to ¼" wide shall be filled with a trowel application of **Air-Bloc® 33MR** and allowed to cure overnight prior to application of the liquid membrane to the surface, or alternatively, the cracks may be sealed with a strip of **Blueskin®** membrane applied to the primed substrate (use **Blueskin® Primer** or **Henry #545 Aquatac™**). Cracks wider than ¼" should be sealed with **Blueskin®** membrane adhered to the primed substrate and lapped a minimum of 3" on both sides of the crack. Transition joints between two dissimilar materials at beams, columns, window and door frames, etc., should be sealed with strips of **Blueskin®** membrane, lapped a minimum of 3" on both substrates. Mechanical attachment should be made to all window and door frames, or a properly designed sealant joint should be provided.

## Air-Bloc® 33MR UV Resistant Vapor Permeable Air and Weather Barrier Membrane

### Joint & Crack Treatment

Dynamic or expansion joint treatment must be in compliance with projects' architectural details and specifications.

#### Sheathing or Substrate Non-Moving Joint Treatment Options:

**Note:** apply per products' published Technical Data Sheets

<i>Non-Moving Joint Width</i>	Method #1 Sealant Method	Method #2 Fluid-Ap Method	Method #3 Self-adhered Sheet Method
Less than 6mm (1/4")	<ol style="list-style-type: none"><li><b>HE 925 BES Sealant</b></li><li>Fill and strike smooth</li><li>Allow to dry</li></ol>	<ol style="list-style-type: none"><li>Fill with <b>Air-Bloc® 33MR</b> by trowel, extending beyond joint line a minimum 75mm (3") onto face of substrate</li><li>Fully embed 50mm (2") minimum <b>Yellow Jacket</b> glass fiber reinforcing tape into wet <b>Air-Bloc® 33MR</b> – centered over joint.</li></ol>	<ol style="list-style-type: none"><li>Apply <b>Blueskin Adhesive, Blueskin LVC Adhesive or Aquatac</b></li><li>Allow to dry</li><li>Apply self-adhered membrane and roll in place.</li></ol> <p><u>Select One:</u></p> <p>Permeable option:</p> <ul style="list-style-type: none"><li><b>BlueskinVP 160</b></li></ul> <p>Non-permeable option:</p> <ul style="list-style-type: none"><li><b>Blueskin SA</b></li><li><b>Blueskin SA LT</b></li><li><b>Blueskin SA HT</b></li><li><b>Foilskin</b></li></ul>
6mm (1/4") to 12mm (1/2")	Same As Above	Do Not Use	Same As Above

### Application

**Air-Bloc® 33MR** may be applied by brush or heavy-duty airless spray in a single or dual-coat application. Apply in continuous, monolithic application without sags, runs or voids, transitioning onto flashing membrane to create a uniform drainage plane and air-barrier. Regularly monitor wet mil thickness during application to assure adequate coverage.

**Coverage Rates:** Apply per published architectural specifications. Typical application rates include:

- 6 gal US / 100ft<sup>2</sup> (2.0 l/m<sup>2</sup>) to give a wet film thickness of approximately 100 mils nominal (55 mils dry)

### Precautions

When transporting this product, be sure the container is secured and the lid is tight. Do not allow container to tumble as this may loosen the lid and allow leakage to occur. Avoid freezing during storage, application and before material has cured.

### Clean Up

Use waterless hand cleaner for skin. Spray equipment can be flushed out with water. Use citrus based cleaners to remove dried films.

### Caution

**DO NOT TAKE INTERNALLY!** Close container after each use. Avoid breathing of vapors as it may cause respiratory tract irritation. Use protective measures to avoid contact with eyes and skin. If swallowed, **CALL PHYSICIAN IMMEDIATELY!** In case of eye contact, open eyelids wide and flush immediately with plenty of water for at least 15 minutes. In case of accidental injection by power spray equipment, **GET MEDICAL ATTENTION!** Dispose of container and unused contents in accordance with Local, State and Federal regulations. Do not heat container or store at temperatures greater than 120°F. **KEEP OUT OF REACH OF CHILDREN. FOR EXTERIOR USE ONLY. KEEP FROM FREEZING.**

**WARNING:** This product contains detectable amounts of chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

**Employers** should obtain a copy of the **Material Safety Data Sheet (MSDS)** from your supplier or directly from Henry at the toll free number or website below.

## **Air-Bloc® 33MR UV Resistant Vapor Permeable Air and Weather Barrier Membrane**

### **Limited Warranty**

---

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product – such as weather, workmanship, equipment utilized and prior condition of the substrate – are all beyond our control. We will replace at no charge any product proved to be defective within 12 months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. **DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY: THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES EXPRESS OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FOR A PARTICULAR PURPOSE. MANUFACTURER SHALL HAVE NO LIABILITY OF ANY KIND BEYOND PRODUCT REPLACEMENT, INCLUDING FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM ANY DEFECTS OR ANY DELAYS CAUSED BY REPLACEMENT OR OTHERWISE. THIS LIMITED WARRANTY PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY FOR ANY DEFECT IN THE PRODUCT.**

Contact Warranty Department at [warranty@henry.com](mailto:warranty@henry.com) or location shown below for product or systems warranty information.

### **STATEMENT OF RESPONSIBILITY**

---

The technical and application information herein is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. Henry Company data sheets are updated on a regular basis; it is the user's responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.