



#1 CHOICE OF PROFESSIONALS®

Air-Bloc 31

Liquid Emulsion Vapor Permeable Air Barrier Membrane

Physical Properties

-Color	Grey	-Air Permeability (Applied at 18.6 ft ² /gallon to a concrete block wall. Tested at 70°F.)	
-Solids by Weight	60%		
-Weight	10.8 lbs/gallon (approx.)		
-Coverage	18.6 ft ² /gallon (43 mil) dry thickness		
-Drying Time	@50% R.H. 68°F		
Initial Set	2 Hours	<u>Pressure (lbs/ft²)</u>	<u>Air Leakage CFM/ft²</u>
Set Through	24 Hours	1.6	0.00010
-Service Temperature (glue line)	-40°F to 158°F	5.2	0.00014
-Application Temperature	40°F (minimum)	6.3	0.00015
-Chemical Resistance	Resists salt solutions, mild acids and alkalis. Non-resistant to oils or solvents.	1.6	0.00010
-Tensile Strength (ASTM D412)	140 psi (typical)		
-Elongation (ASTM D412)	925% (typical)	-Resistance to Gust Wind Load	The applied membrane meets Mass/Canadian code requirements for air leakage at 62.7 lbs/ft ² Gust Load suction pressure and continued requirements following gust loading when tested at 1.6 lbs/ft ² .
-Peel Strength to Concrete (Dry) (ASTM C836)	10.3 lbf/in (typical)		
-Low Temperature Flexibility and Crack Bridging at -20°C (ASTM C836)	Pass	-Resistance to Sustained Wind Load	Resists a suction pressure of 20.9 lbs/ft ² maintained for 1 hour with no increase in air leakage rate when tested at 1.6 lbs/ft ² .
-Aging (Long Term Flexibility) (CGSB 71-GP-24M)	No fracturing		
-Maximum V.O.C.	100 grams/liter	-Chemical Resistance	Resists salt solutions, mild acids and alkalis. Non-resistant to oils, grease or solvents.
-Watertightness (CAN/CGSB-37.58-M86)	Pass		
-Water Swelling (ASTM D6083)	26% (7 day immersion)	-Flammability	
-Water Vapor Permeance (43 mil dry thickness) (ASTM E-96, proc. B)	21 perms (1,201 ng/Pa.m ² .s)	Wet	Non-flammable
		Dry	Burns

Description

Air-Bloc 31 is a one component, liquid applied, non-asphaltic, vapor permeable, rubberized (elastomeric) membrane designed to provide a barrier to air and rain when applied to construction surfaces. Cures to a tough monolithic rubber-like membrane, which resists air leakage.

Features

- Seamless rubberized (elastomeric) membrane.
- Retains flexibility over a wide temperature range.
- Easy, low cost spray application using simple equipment.
- High water vapor permeance provides "breather" characteristics.
- Excellent adhesion to most construction surfaces such as block, concrete, stone, wood and metal.
- Can be applied to damp concrete.
- Bridges cracks.
- Does not contain organic solvents and is environmentally friendly.

Uses

Used to provide an air and rain barrier on construction surfaces such as masonry, concrete or gypsum board.

Limitations

Not designed to perform as a permanently exposed surface. Must be protected from damage during construction. Do not apply to wet surfaces. Following installation of Air-Bloc 31 in new building construction, CMU walls where Air-Bloc 31 has been applied must be protected at the roof line to prevent water infiltration into the wall cavity.

Ambient Conditions

Air-Bloc 31 shall not be applied when ambient (air) and substrate temperatures are below 40°F. The product should not be applied if it is raining, or if the possibility of rain is likely within 24 hours. The product should not be applied if it is expected that the ambient temperature will fall below 32°F within 48 hours.

Packaging

Air-Bloc 31 is packaged in 5-gallon pails or 55-gallon drums.

Surface Preparation

The application can be carried out 16 hours after the forms have been removed from poured concrete. Mortar joints in concrete block and form tie holes/voids in poured concrete shall be filled flush and smooth, and allowed to cure for a minimum for 24 hours. Surfaces may be damp but not wet and must be clean, free from frost, grease, dirt, or other contaminants and must be reasonably smooth. Damp concrete or masonry must not be inhibited from drying out by allowing exposure of the back side to moisture or rain. If the substrate remains damp for a prolonged period, cure-out of the Air-Bloc 31 will be retarded leaving the membrane prone to damage by rain.

Joint & Crack Treatment

Joints between panels of exterior grade gypsum sheathing, plywood and rigid insulation up to 1/4" (6 mm) wide shall be filled with a trowel application of **Air-Bloc 31** and reinforced with a strip of 2" (50 mm) wide glass fiber tape prior to application of liquid membrane. Alternatively, joints may be sealed with a strip of **Blueskin® Breather** membrane applied to the primed substrate. Joints between panels of exterior grade gypsum or plywood sheathing wider than 1/4" (6 mm) must be sealed with **Blueskin® Breather** membrane adhered to the primed substrate prior to application of **Air-Bloc 31**.

Cracks in masonry and concrete up to 1/4" (6 mm) wide shall be filled with a trowel application of **Air-Bloc 31** and allowed to cure overnight prior to application of the liquid membrane. Alternatively, the cracks may be sealed with a strip of **Blueskin® Breather** membrane applied to the primed substrate. Cracks wider than 1/4" (6 mm) must be sealed with **Blueskin® Breather** membrane adhered to the primed substrate and lapped a minimum of 3" (75 mm) on both sides of the crack.

Surfaces should be tied in with beams, columns, window and doorframes, etc.; using strips of **Blueskin®** lapped a minimum of 3" (75 mm) on both primed substrates. Mechanical attachment should be made to all window and doorframes, or a properly designed sealant joint provided.

Application

Air-Bloc 31 may be applied by brush, however application by conventional air spray is the preferred method. The material should be applied at a rate of 18.6 ft²/gallon to give a wet film thickness of 90 mils. **Air-Bloc 31** can be applied in a single coat. The preferred method of application is to mark areas off and ensure that the appropriate volume has been sprayed over this area. During spraying, the material should be applied in horizontal strokes ensuring even application of the product, and then applied in vertical strokes, again ensuring even application. In areas where the surface is not uniform, i.e. slightly rough with the presence of small indentations and recesses, an added over spray should be performed. This over spray should be sufficient to fill the voids, without excessive material application such that slumping or running of the material occurs.

Clean Up

Spray equipment can be flushed out with water. Use mineral spirits to remove dried films.

Avoid Freezing

During storage, application and before material has cured.

Caution

DO NOT TAKE INTERNALLY! 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. **GET MEDICAL ATTENTION!** Do not heat container or store at temperatures greater than 120°F. Close container after each use. **KEEP OUT OF REACH OF CHILDREN.**

Limited Warranty

We, the manufacturer, warranty 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:** The Limited Warranty is IN LIEU OF any other warranties express or implied including but not limited to any implied warranty of MERCHANTABILITY or fitness for a particular purpose, and we, the manufacturer, shall have no further liability of any kind including liability for consequential or incidental damages resulting from any defects or any delays caused by replacement or otherwise.

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