

# Air-Bloc 32

## Liquid Emulsion Air and Vapour Barrier Membrane

### Physical Properties

-Colour	Beige	-Water Vapour Permeance (ASTM E-96)	5 ng/Pa.m <sup>2</sup> .s (0.08 perms)
-Solids by Volume	55%	-Air Permeability (Applied at 3 l/m <sup>2</sup> to a concrete block wall. Tested at 23°C.)	
-Weight	1.0 kg/l (approx.)		
-Coverage	3 l/m <sup>2</sup> (70ft <sup>2</sup> /5 gal U.S.)		
-Drying Time	@50% R.H. 20°C		
Initial Set	2 Hours		
Set Through	24 Hours		
-Service Temperature	-40°C to 70°C		
-Application Temperature	5°C (minimum)		
-Chemical Resistance	Resists salt solutions, mild acids and alkalis. Non-resistant to oils or solvents.		
		<u>Pressure (Pa)</u>	<u>Air Leakage (L/s.m<sup>2</sup>)</u>
		75	0.0006
		250	0.0007
		500	0.0010
-Tensile Strength (ASTM D412)	820 kPa (typical)	-Resistance to Gust Wind Load	Resists a suction pressure of 3000 Pa maintained for 10 seconds with no increase in air leakage rate when tested at 75 Pa.
-Elongation (ASTM D412)	800% (typical)	-Resistance to Sustained Wind Load	Resists a suction pressure of 1000 Pa maintained for 1 hour with no increase in air leakage rate when tested at 75 Pa. Resists salt solutions, mild acids and alkalis. Non-resistant to oils, grease or solvents.
-Recovery (CAN/CGSB 37.58 - M86)	90%	-Chemical Resistance	
-Peel Strength to Concrete (Dry) (ASTM C836)	4.5 kN/m (typical) (25 lbs./in)	-Flammability	
-Aging (Long Term Flexibility) (CGSB 71-GP-24M)	No fracturing	Wet	Non-flammable
-Watertightness (CAN/CGSB-37.58-M86)	Pass	Dry	Burns
-VOC content	No appreciable VOC		

### Description

**Air-Bloc 32** is a one component, liquid applied, elastomeric membrane designed to provide an air and vapour barrier when applied to construction surfaces. Cures to a tough monolithic rubber-like membrane which resists air leakage. Meets CAN/CGSB-51-33 Type I Water Vapour Permeance requirements.

### Features

- Cold applied by trowel or spray
- Seamless elastomeric membrane
- Retains flexibility over a wide temperature range
- Easy, low cost spray application
- Low water vapour permeance provides vapour barrier
- Excellent adhesion to most construction surfaces such as block, concrete, stone, wood and metal and gypsum board
- Can be applied to damp concrete
- Bridges cracks
- Low volatile organic content and environmentally friendly

### Uses

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

## **Air-Bloc 32 Liquid Emulsion Air and Vapour Barrier Membrane**

---

### **Limitations**

---

Not designed to perform as a permanently exposed surface. Must be protected from damage during construction. Do not apply to wet surfaces.

**Air-Bloc 32** shall not be applied when ambient (air) and substrate temperatures are below 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 0°C within 48 hours.

### **Surface Preparation**

---

Surfaces may be damp but must be clean, free of frost, grease, dirt, or other contaminants and must be reasonably smooth.

Joints between panels of exterior grade gypsum, plywood and rigid insulation up to 6 mm wide shall be filled with a trowel application of **Air-Bloc 32** and reinforced with a strip of 50 mm wide glass fibre tape such as **Bakor 990-06 Yellow Jacket** prior to application of liquid membrane. Joints between panels of exterior grade gypsum or plywood wider than 6 mm should be sealed with **Blueskin**<sup>®</sup> membrane adhered to the substrate. Joints wider than 6 mm between panels of rigid insulation are not permitted.

Cracks in masonry and concrete up to 6 mm wide shall be filled with a trowel application of **Air-Bloc 32** 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**<sup>®</sup> membrane applied to the substrate. Cracks wider than 6 mm should be sealed with **Blueskin**<sup>®</sup> membrane adhered to the substrate lapped a minimum of 75 mm on both sides of the crack.

Surfaces should be tied in with beams, columns, window and door frames, etc., using strips of **Blueskin**<sup>®</sup> lapped a minimum of 75mm on both substrates. Mechanical attachment should be made to all window and door frames, or a properly designed sealant joint provided.

### **Application**

---

**Air-Bloc 32** may be applied by trowel, however application by spray is the preferred method. The material should be applied at a rate of 3 L/m<sup>2</sup> to give a wet film thickness of 3 mm (120 mils), and a cured dry thickness of 1.5 mm (60 mils). **Air-Bloc 32** 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.

### **Clean Up**

---

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

### **Caution**

---

Harmful if swallowed. <>