

# Air-Bloc 07

## Vapour Permeable Air Barrier Membrane

### Physical Properties

-Colour	Black	-Water Vapour Permeance (ASTM E96 Method E)	@ 3 mm film 400 ng/Pa.m <sup>2</sup> .s (typical) (7 perms)
-Solids by Weight	68%	-Air Permeability	<u>Air Leakage Rate (L/s.m<sup>2</sup>)</u>
-Weight	1.0 kg/l		<u>Pressure (Pa)</u>
-Coverage	3 to 5 l/m <sup>2</sup>		<u>3 mm film</u>
-Drying Time	@ 50% R.H. 20°C (68°F)		<u>5 mm film</u>
Tough Dry	8 Hours	75	0.054
Firm Dry	48 Hours	250	0.120
Through Dry	30 Days	500	0.179
-Service Temp	-40°C to 60°C		
-Application Temp	-12°C Minimum		
-Flammability		-Resistance to Gust Wind Load	Resists a suction pressure of 3,000 Pa for 10 seconds with no delamination.
Wet	Flammable		
Dry	Burns	-Resistance to Sustained Wind Load	Resists a suction pressure of 1,000 Pa maintained for 1 hour with no delamination. No fracturing.
-Watertightness (CAN/CGSB-37.58-M86)	Pass		

### Description

**Air-Bloc 07** is a single component solvent based, polymer modified bitumen, liquid membrane designed to resist air leakage when applied to construction surfaces while remaining permeable to the passage of water vapour.

### Features

- Cold applied by trowel or spray
- Excellent adhesion to most construction surfaces such as masonry, concrete, stone, wood, gypsum board, rigid insulation and metal
- Seals around projections such as brick ties
- Cures to a flexible film
- Minimal shrinkage on curing provides crack filling as well as bridging capabilities
- High water vapour permeance provides "breather" characteristic
- Provides weather and water resistant coating

### Uses

Used to provide an air and rain barrier on exterior construction surfaces such as masonry, concrete, exterior grade gypsum or rigid insulation in systems utilizing an interior vapour barrier such as polyethylene film where the entrapment of water vapour is to be avoided. Can be installed on the cold side of the wall assembly without trapping moisture.

### Limitations

Avoid use in areas where solvent vapour may taint food or other susceptible products. **Do not apply directly to polystyrene insulation. Not designed for permanent exposure.**

Solvents in product may attack polystyrene insulation. **Air-Bloc 07** should be allowed to cure for a minimum of 48 hours before polystyrene insulation is placed in direct contact.

### Packaging

**Air-Bloc 07** is packaged in 18.93L or 205L drums.

## **Air-Bloc 07 Vapour Permeable Air Barrier Membrane**

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### **Surface Preparation**

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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 14 days before **Air-Bloc 07** is applied. Concrete surfaces should be free of large voids and spalled areas.

### **Joint & Crack Treatment**

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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 07** 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.

Cracks in masonry and concrete up to 6 mm wide shall be filled with a trowel application of **Air-Bloc 07** 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 75 mm on both substrates. Mechanical attachment should be made to all window and door frames, or a properly designed sealant joint provided.

### **Application of Membrane**

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Refer to **Air-Bloc 07** Guide Specification for detailed application information.

**Air-Bloc 07** should be applied by flat trowel or spray at a uniform wet thickness of 3 to 5 mm (0.120" to 0.200"). Care should be exercised to ensure full contact of the membrane around protrusions such as brick ties at the point of contact with the wall.

### **Application of Insulation to Membrane**

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**Insulation Adhesive: 230-21 Rigid Insulation Adhesive** should be applied to the insulation boards in a serpentine pattern to restrict movement of air behind the insulation. Alternatively, apply full coat notched trowel application of **230-21 Rigid Insulation Adhesive** to the back of the board. Press insulation firmly in place.

### **Clean Up**

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Use mineral spirits or citrus based cleaners.

### **Caution**

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Contains flammable solvents. Take suitable fire precautions. Do not allow smoking or welding in working area. Keep away from heat and open flame. Use in well ventilated areas. Keep containers covered when not in use. Harmful if swallowed. <>