

# Air-Bloc 21

## Air & Vapour Barrier and Insulation Adhesive

### Physical Properties

-Colour	Cream	-Air Permeability (Applied at 3 l/m <sup>2</sup> to a concrete block wall. Tested at 21°C.)	
-Solids by Weight	72%		
-Weight	1.2 kg/l (approx.)		
-Coverage	3 l/m <sup>2</sup>		
-Drying Time	@ 50% R.H. 20°C		
Initial Set	4 Hours	<u>Pressure (Pa)</u>	<u>Air Leakage (L/s.m<sup>2</sup>)</u>
Set Through	48 Hours	100	0.013
-Service Temp (glue line)	-40°C to 60°C	250	0.018
-Application Temp	-12°C to 40°C	500	0.027
-Flammability		1000	0.037
Wet	Flammable	1500	0.048
Dry	Burns	3000	0.075
-Aging (Long Term Flexibility) (CGSB 71-GP-24M)	No fracturing	-Resistance to Gust Wind Load	Resists a suction pressure of 3000 Pa maintained for 5 seconds with no increase air leakage rate when tested at 100 Pa.
-Chemical Resistance	Resists salt solution, mild acids and alkalis. Non- resistant to oils, grease or solvents. 3.2 mm (1/8") wet film	-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 100 Pa.
-Watertightness (CAN/CGSB-37.58-M86)	Pass		
-Water Vapour Permeance (ASTM E96)	1.7 ng/Pa m <sup>2</sup> .s (0.03 perms)		

### Description

**Air-Bloc 21** is a trowel consistency, solvent type, synthetic rubber based insulation adhesive formulated for ease of application to construction surfaces such as masonry and concrete, gypsum board and wood. Cures to a flexible film which resists air leakage. Designed to be used as a full bed adhesive in conjunction with rigid foam or semi-rigid paper-faced insulation to provide an air barrier.

### Features

- Smooth spreading
- Can be applied at temperatures down to minus 12°C
- Seals around projections such as brick ties
- Cures to a flexible film
- Adheres to most types of rigid insulation

### Uses

To provide an air, vapour and rain barrier when used as a full bed adhesive for rigid insulation such as polystyrene, paper-faced fibrous glass, or polyisocyanurate applied to construction surfaces such as masonry, concrete, gypsum board or wood.

### Packaging

**Air-Bloc 21** is packaged in 18.93L pails.

## Air-Bloc 21 Air & Vapour Barrier Insulation Adhesive

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### Limitations

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The components used in **Air-Bloc 21** do not attack polystyrene insulation at ambient temperatures below 40°C. Polystyrene insulation may be affected by solvent system in uncured **Air-Bloc 21** if temperatures are in excess of 40°C (104°F) at time of application. Use mechanical fasteners when installing ceiling insulation. Plaster or other wall finishes must not be applied over the insulation without providing additional support such as mechanical fasteners. Do not use as an insulation clip adhesive. Not designed for permanent exposure. Insulation must be installed into wet film immediately or blistering of membrane may occur.

### 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 21** 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 21** 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 21** 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

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Refer to **Air-Bloc 21** Guide Specification for detailed application information.

Apply by trowel a continuous unbroken film of **Air-Bloc 21** at a wet thickness of 3 mm to the surface. Immediately press insulation firmly into place to ensure complete contact.

Care should be exercised to ensure full contact of the adhesive around protrusions such as brick ties at the point of contact with the wall.

Cure rate is dependent upon temperature and porosity of the surface and insulation being bonded.

### Clean Up

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Use mineral spirits or citrus cleaners.

### Caution

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