



#1 CHOICE OF PROFESSIONALS®

Air-Bloc 21

Air & Vapor Barrier and Insulation Adhesive

Physical Properties

-Color	Cream	-Air Permeability (Applied at 13.5 ft ² /gallon to a concrete block wall. Tested at 70°F.)	
-Solids by Weight	72%		
-Weight	10 lbs/gal.		
-Coverage	13.5 ft ² /gallon		
-Drying Time	@ 50% R.H. 68°F		
Initial Set	4 Hours	<u>Pressure (lbs/ft²)</u>	<u>Air Leakage CFM/ft²</u>
Set Through	48 Hours	2.1	0.0026
-Service Temp (glue line)	-40°F to 140°F	5.2	0.0036
-Application Temp	10°F to 104°F	10.5	0.0054
-Flammability		20.9	0.0074
Wet	Flammable	31.4	0.0096
Dry	Burns	62.8	0.0150
-Aging (Long Term Flexibility) (CGSB 71-GP-24M)	No fracturing	-Resistance to Gust Wind Load	Resists a suction pressure of 62.8 lbs/ft ² maintained for 5 seconds with no increase air leakage rate when tested at 2.1 lbs/ft ² .
-Chemical Resistance	Resists salt solution, mild acids and alkalis. Non- resistant to oils, grease or solvents.	-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 2.1 lbs/ft ² .
-Water Vapor Permeance (ASTM E96)	1/8" wet film 0.03 perms (1.7 ng/Pa m ² .s)		
-VOC	<350 g/L		
-Watertightness (CAN/CGSB-37.58-M86)	Pass		

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 10°F.
- Seals around projections such as brick ties.
- Cures to a flexible film.
- Adheres to most types of rigid insulation.

Uses

To provide an air, vapor 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, masonry gypsum board or wood.

Packaging

Air-Bloc 21 is packaged in 5-gallon pails.

Limitations

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

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 14 days before **Air-Bloc 21** is applied. Concrete surfaces should be free of large voids and spalled areas.

Joint & Crack Treatment

Joints between panels of exterior grade gypsum, plywood and rigid insulation up to 1/4" (6 mm) wide shall be filled with a trowel application of **Air-Bloc 21** and reinforced with a strip of 2" (50 mm) wide glass fiber tape prior to application of liquid membrane. Joints between panels of exterior grade gypsum or plywood wider than 1/4" (6 mm) should be sealed with **Blueskin**[®] membrane adhered to the substrate.

Cracks in masonry and concrete up to 1/4" (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. Alternatively, the cracks may be sealed with a strip of **Blueskin**[®] membrane applied to the substrate. Cracks wider than 1/4" should be sealed with **Blueskin**[®] membrane adhered to the substrate 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 substrates. Mechanical attachment should be made to all window and doorframes, or a properly designed sealant joint provided.

Application

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 1/8" 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

Use mineral spirits or citrus cleaners.

Caution

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPORS MAY CAUSE FLASH FIRE. DO NOT THIN. Contains petroleum distillate. Vapors may ignite explosively. Keep away from heat, sparks, and flame. Vapors may cause flash fire. Do not smoke. Extinguish all flames and pilot lights; turn off all stoves, heaters, electric motors, and other sources of ignition during use and until all vapors are gone. Do not heat container or store at temperatures greater than 120°F. **CLOSE AIR INTAKES** until solvents dissipate. Contains volatile solvents that might contaminate potable water. Close container after each use.

DANGER! HARMFUL OR FATAL IF SWALLOWED! If swallowed, do not induce vomiting. CALL PHYSICIAN IMMEDIATELY!

Use protective measures to avoid contact with eyes and skin. In case of eye contact, open eyelids wide and flush immediately with plenty of water for at least 15 minutes. GET MEDICAL ATTENTION! USE ONLY WITH ADEQUATE VENTILATION! Avoid breathing of vapor. If you experience eye watering, headaches or dizziness, leave area or increase fresh air or wear respirator (NIOSH/MSHA TC 23C or equal). Repeated and prolonged occupational exposure to solvents can result in permanent brain and nervous system damage.

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. <>