TECHNICAL DATA SHEET

Air-Bloc 07

Trowel Grade Vapor Permeable Air Barrier Membrane

Physical Properties

-Color	Black
-Solids by Weight	68%
-Weight	8.3 lbs/gallon
-Coverage	8.1 to 13.5 ft^2/gallon
-Drying Time	@ 50% R.H. 68°F 8 Hours
Tough Dry	48 Hours
Firm Dry	30 Days
Through Dry	
-Service Temp -	-40°F to 140°F 10°F Minimum
Application Temp -	
Flammability	
Wet	Flammable
Dry	Burns
-Maximum V.O.C. -	<250 g/L
Watertightness (CAN/CGSB-37.58-M86)	Pass

-Water Vapor Permeance (ASTM E96 Method E)	@ 1/8" film 7 perms (400 ng/Pa.m^2.s typical)
-Air Permeability (ASTM E283-91)	
Pressure (lbs/ft^2)	Air Leakage @120mils 0.01 08 0.0240 0.0358 / Rate (CFM/ft^2) @200mils 0.0014 0.0036 0.0052
1.6	
5.2	
10.5	
-Resistance to Gust Wind Load	Resists a suction pressure of 62 lbs/ft^2 for 10 seconds with no delamination.
-Resistance to Sustained Wind Load	Resists a suction pressure of 20.9 lbs/ft^2 maintained for 1 hour with no delamination. No fracturing.

Description

Air-Bloc 07 is a one-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 vapor.

Features

-Cold applied by trowel
-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 vapor permeance provides "breather" characteristic.
-Provides weather and water resistant coating.

Uses

Used to provide an air and water barrier on exterior construction surfaces such as masonry, concrete, exterior grade gypsum or rigid insulation in systems utilizing an interior vapor barrier such as polyethylene film where the entrapment of water vapor 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 vapor may taint food or other susceptible products. **Solvents in product may attack polystyrene insulation. The membrane should be allowed to cure for a minimum of 48 hours before polystyrene insulation is placed in direct contact.** Not designed for permanent exposure to weather - protect as soon as possible, however can be exposed up to 6 weeks if necessary to accommodate construction scheduling.

Packaging

Air-Bloc 07 is packaged in 5 gallon or 55 gallon drums.

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Surface Preparation

All surfaces must be dry, clean, free of frost, grease, dirt, form release agents or other contaminants and must be reasonably smooth. New concrete should be cured for a minimum of 14 days before **Air-Bloc 07** is applied. Mortar joints on CMU walls and other masonry substrates shall be struck flush. Form tie holes, voids, cracks, and cold joints in cast-in-place concrete or masonry shall be filled flush and smooth with a non-shrink cementitious patching material, and allowed to cure for a minimum for 24 hours. **Joint & Crack Treatment**

Sheathing Joints and Inside and Outside Corners: Pre-treat all sheathing joints prior to application of **Air-Bloc 07.** Joints between panels of exterior sheathing may be treated in one of two ways. Joints between panels of exterior sheathing up to ¼" wide and can be filled with a trowel application of **Air-Bloc 07** and reinforced with a strip of 2" to 4" wide glass fiber tape such as **Henry 183** Yellow Glass Fabric, and allowed to fully cure prior to application of field coat. Alternatively, sheathing joints may be sealed with a strip of 3" wide **Blueskin® Breather** membrane applied to the primed substrate. Joints between panels of exterior sheathing wider than ¼", and all inside and outside corners, must be sealed with a strip of **Blueskin® Breather** membrane adhered to the primed substrate extending 2" to 3" on both sides of the joint.

Non-moving Cracks and Cold Joints: Pre-treat all non-moving cracks and cold joints in masonry and concrete prior to application of **Air-Bloc 07.** Non-moving cracks and cold joints in masonry and concrete up to ¼" wide shall be filled with a trowel application of **Air-Bloc 07,** reinforced with a strip of 2" to 4" wide glass fiber tape such as **Henry 183** Yellow Glass Fabric and allowed to cure overnight prior to application of the field coat. Alternatively, cracks may be sealed with a strip of **Blueskin® Breather** membrane applied to the primed substrate. Cracks or joints wider than ¼" must be sealed with **Blueskin® Breather** membrane adhered to the primed substrate and lapped a minimum of 3" on both sides of the crack.

Joints Between Dissimilar Materials: Transition joints between dissimilar materials at beams, columns, window and door frames etc. should be sealed with strips of **Blueskin® Breather** membrane lapped a minimum of 3" onto both substrates. Mechanical attachment should be made to all window and door frames, or a properly designed sealant joint should be provided.

Application of Blueskin® Breather Transition Membranes: All surfaces to receive **Blueskin® Breather** transition membranes must first be primed with **Aquatac® Primer.** Note: Do not use **Blueskin® Adhesive** in conjunction with **Blueskin® Breather,** as it will reduce the permeability of the vapor permeable **Blueskin® Breather.**

Application of Membrane

Refer to **Air-Bloc 07** Guide Specification for detailed application information. **Air-Bloc 07** should be applied by flat trowel at an application rate of 13.5 to22.5 ft^2/gallon for a uniform wet film thickness of 70 mils to 120 mils. **Air-Bloc 07** can be applied in a single coat. 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. The preferred method of application is to mark areas off and ensure that the appropriate volume has been applied over this area.

Product should be carried approximately 1" onto **Blueskin® Breather** transition membranes. On CMU walls, provide temporary cap flashing at top of wall during construction to prevent rain or other sources of water from entering the CMU block.

Application of Insulation to Membrane

Insulation Adhesive: Air-Bloc 21 should be applied to the insulation boards in a serpentine pattern to restrict movement of air behind the insulation. Press insulation firmly in place.

Clean Up

Use mineral spirits or citrus cleaners.

Caution

DO NOT THIN. **COMBUSTIBLE!** Contains petroleum distillate. Keep away from heat and flame. 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 solvent vapor can result in permanent brain and nervous system damage, and may cause liver or kidney 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. <>