TECHNICAL DATA SHEET

Air-Bloc 07
Vapor Permeable Air Barrier Membrane

Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>-Color</td>
<td>Black</td>
</tr>
<tr>
<td>-Solids by Weight</td>
<td>68%</td>
</tr>
<tr>
<td>-Weight</td>
<td>8.3 lbs/gal</td>
</tr>
<tr>
<td>-Drying Time</td>
<td>@ 50% R.H. 68°F</td>
</tr>
<tr>
<td>Tough Dry</td>
<td>8 Hours</td>
</tr>
<tr>
<td>Firm Dry</td>
<td>48 Hours</td>
</tr>
<tr>
<td>Through Dry</td>
<td>30 Days</td>
</tr>
<tr>
<td>-Service Temp</td>
<td>-40°F to 140°F</td>
</tr>
<tr>
<td>-Application Temp</td>
<td>10°F Minimum</td>
</tr>
<tr>
<td>-Max VOC</td>
<td>&lt;250 g/l</td>
</tr>
<tr>
<td>-Flammability</td>
<td>Flammable</td>
</tr>
<tr>
<td>Wet</td>
<td>Burns</td>
</tr>
<tr>
<td>Dry</td>
<td>Pass</td>
</tr>
</tbody>
</table>

- Water Vapor Permeance (ASTM E96 Method E)
  - Pressure (lbs/ft²)
    - 1.6: 0.0108 @1/8” film
    - 5.2: 0.0240 @120mils
    - 10.5: 0.0358 @200mils

- Air Permeability
  - 400 ng/Pa.m².s (typical) (7 perms)

- Resistance to Gust Wind Load
  - Resists a suction pressure of 62 lbs/ft² for 10 seconds with no delamination.

- Resistance to Sustained Wind Load
  - Resists a suction pressure of 20.9 lbs/ft² 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 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 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 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. The membrane 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 5 gallon pails.

Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, form release agents or other contaminants, and must be reasonable 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 cementious patching material, and allowed to cure for a minimum of 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 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, column, 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 to 22.5 sq. ft./gal. 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: 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

Use mineral spirits or citrus based cleaners.
Caution

WARNING! COMBUSTIBLE! DO NOT THIN. 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.

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 TC23 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, warrant 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.

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