



Air-Bloc 33

UV Resistant Vapor Permeable Air and Rain Barrier Membrane

Physical Properties

-Color	Black	-Water Vapor Permeance (ASTM E96)	14.5 perms @ 100 wet mils
-Solids by Weight	65% (approx.)		
-VOC's	100g/l (max)		
-Weight	12lbs/gal.		
-Coverage	6 gal US/100ft ²		
-Drying Time	@ 50% R.H. 68°F		
Touch Dry	Dry Substrate		
Firm Dry	2 Hours	Pressure (lbs/ft ²)	Air Leakage (CFM/ft ²)
-Service Temperature (coated face)	24 Hours	1.6	0.0016
-Application Temperature	Minus 40°F to 185°F	5.2	0.0033
-Tensile Strength (ASTM D412)	40°F to 122°F	10.5	0.0048
-Elongation (ASTM D412)	125 psi (typical)		
-Aging (Long Term Flexibility)	200% (typical)		
CGSB 71-GP-24M)	No fracturing		
-Flammability			
Wet	Non-flammable	-Resistance to Gust Wind Load	Resists a suction pressure of 62.8 lbs/ft ² maintained for 10 seconds with no increase in air leakage rate when tested at 1.6 lbs/ft ² .
Dry	Fire Resistive		
-Chemical Resistance	Resists mild acids and alkalis, oil, grease, petroleum solvents and salt solutions	-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 1.6 lbs/ft ² .
-UV Resistance	Passes 73 daily cycles of UV and water spray with no observable deterioration	-Surface Burning (ASTM E84)	Flame Spread: 25 Smoke Developed: 85 NFPA Class A, UBC Class 1

Description

Air-Bloc 33 is a UV resistant, one component, liquid applied, rubberized (elastomeric) membrane designed to provide an air and rain barrier when applied to construction surfaces. Cures to a tough monolithic rubber-like membrane, which resists air leakage and yields a superior weather resistant surface. **Fire Resistive—meets NFPA Class A and UBC Class 1**

Features

- UV resistant for indefinite exposure
- Seamless rubberized (elastomeric) membrane.
- Easy, low cost spray application using standard spray equipment.
- High water vapor permeance provides "breather" characteristics.
- Excellent adhesion to most construction surfaces such as block, concrete, stone, wood, metal, and gypsum board.
- Can be applied to damp concrete.
- Bridges static cracks.
- Does not contain solvents and is environmentally friendly.
- Fire Resistive—meets NFPA Class A and UBC Class 1

Uses

Used to provide a UV resistant air barrier and rain barrier when used in conjunction with rain screen wall systems.

Limitations

Must be protected from damage during construction. Do not apply to wet surfaces. Avoid freezing. **Air-Bloc 33** shall not be applied when ambient (air) and substrate temperatures are below 40°F. The product should not be applied if it is raining, or if the possibility of rain is likely within 16 hours. The product should not be applied if it is expected that the ambient temperature will fall below 32°F within 48 hours.

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 16 hours before **Air-Bloc 33** 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" wide shall be filled with a trowel application of **Air-Bloc 33** and reinforced with a strip of 2" wide glass fiber tape prior to application of liquid membrane. Alternatively, joints may be sealed with a strip of **Blueskin® Breather, MetalClad or FoilSkin®** membrane applied to the substrate. Joints between panels of exterior grade gypsum or plywood wider than 1/4" must be sealed with **Blueskin® Breather, MetalClad or FoilSkin®** membrane adhered to the primed substrate.

Cracks in masonry and concrete up to 1/4" wide shall be filled with a trowel application of **Air-Bloc 33** and reinforced with a strip of 2" wide glass fiber tape and allowed to cure overnight prior to application of the liquid membrane to the surface. Alternatively, the cracks may be sealed with a strip of **Blueskin® Breather, MetalClad or FoilSkin®** membrane applied to the primed substrate. Cracks wider than 1/4" must be sealed with **Blueskin® Breather, MetalClad or FoilSkin®** membrane adhered to the primed substrate lapped a minimum of

3" on both sides of the crack.

Surfaces should be tied in with beams, columns, window and door frames, etc., using strips of **Blueskin® Breather, MetalClad or FoilSkin®** lapped to primed substrate a minimum of 3" beyond transition joint. Mechanical attachment should be made to all window and doorframes or a properly designed sealant joint provided.

Surfaces to receive **Blueskin® Breather** membrane must be primed with or **Aquatac™ primer**. Surfaces to receive **FoilSkin® or MetalClad** membranes should be primed with **Blueskin® primer, SprayPrep or Aquatac™ primer**. Refer to specific data sheet for application and rate of coverage of primer.

Application

Air-Bloc 33 may be applied by brush, however application by conventional air spray is the preferred method. The material should be applied at a rate of 6 gal / 100ft² (100 mils nominal). **Air-Bloc 33** can be applied in a single coat. The preferred method of application is to mark areas off and ensure that the appropriate volume has been sprayed over this area. During spraying, the material should be applied in horizontal strokes ensuring even application of the product, and then applied in vertical strokes, again ensuring even application.

Where **Blueskin® Breather** is used, **Air-Bloc 33** should be fully applied over the **Blueskin® Breather** to protect the membrane from UV exposure.

Clean Up

Use waterless hand cleaner for skin. Spray equipment can be flushed out with water. Use citrus based cleaners to remove dried films.

Caution

DO NOT TAKE INTERNALLY! Use protective measures to avoid contact with eyes and skin. If swallowed, **CALL PHYSICIAN IMMEDIATELY!** In case of eye contact, open eyelids wide and flush immediately with plenty of water for at least 15 minutes. **GET MEDICAL ATTENTION!** Do not heat container or store at temperatures greater than 120°F. Close container after each use. **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.

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