TECHNICAL DATA SHEET

Air-Bloc 33

UV Resistant

Vapour Permeable Air and Weather Barrier Membrane

Physical Properties

-Colour	Black
-Solids by Weight	65% (approx.)
-Weight	1.4 kg/l (approx.) (12lbs./gal.US)
-Coverage	2.5 l/m^2 (6gal US/100ft^2)
-Drying Time	@ 50% R.H. 20°C (68°F) Dry Substrate
Touch Dry	2 Hours
Firm Dry	24 Hours
-Service Temperature (coated face)	Minus 40°C to 85°C (Minus 40°F to 185°F)
-Application Temperature	4°C to 50°C (40°F to 122°F)
-Tensile Strength (ASTM D412)	860 kPa (typical) (125 psi)
-Elongation (ASTM D412)	200% (typical)
-Aging (Long Term Flexibility) (CGSB 71-GP-24M)	No fracturing
-Flammability	
Wet	Non-flammable
Dry	Fire Resistive
-Chemical Resistance	Resists mild acids and alkalis, oil, grease, petroleum solvents and salt solutions
-Q-UV Exposure	Passes 73 daily cycles of UV and water spray with no observable deterioration
-Watertightness (CAN/CGSB-37.58–M86)	Pass
-Water Vapour Permeance (ASTM E96)	@ 3 mm (1/8") wet film 655 ng/Pa.m^2.s (11.6 perms)
-Air Permeability (Applied at 2.5 l/m^2 to a concrete block wall. Tested at 22°C.)	

Pressure (Pa)	Air Leakage (L/s.m^2)
75	0.008
250	0.017
500	0.025

-Resistance to Gust Wind Load	Resists a suction pressure of 3000 Pa maintained for 10 seconds with no increase in air leakage rate when tested at 75 Pa.
-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 75 Pa.

Description

Air-Bloc 33 is a UV resistant, one component, liquid applied, rubberized (elastomeric) membrane designed to provide an air barrier when applied to construction surfaces. Cures to a tough monolithic rubber-like membrane, which resists air leakage. Provides a tough, durable, UV and weather resistant finish.

Features

-UV resistant
-Seamless rubberized (elastomeric) membrane.
-Easy, low cost spray application using simple equipment.
-High water vapour permeance provides "breather" characteristics.
-Excellent adhesion to most construction surfaces such as block, concrete, stone, wood and metal and gypsum board.
-Can be applied to damp concrete.
-Bridges cracks.
-Does not contain organic solvents and is environmentally friendly.

Uses

Used to provide a UV resistant air barrier and rain barrier when used in conjunction with rainscreen 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 5°C (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 0°C 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 6 mm wide shall be filled with a trowel application of **Air-Bloc 33** and reinforced with a strip of 50 mm wide glass fibre tape such as Bakor **Yellow Jacket 990-06** prior to application of liquid membrane. Joints between panels of exterior grade gypsum or plywood wider than 6 mm (1/4") should be sealed with **Foilskin**® membrane adhered to the primed substrate.

Cracks in masonry and concrete up to 6 mm (1/4") wide shall be filled with a trowel application of **Air-Bloc 33** 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 **Foilskin**® membrane applied to the substrate. Cracks wider than 6 mm (1/4") should be sealed with **Foilskin**® membrane adhered to the primed substrate lapped a minimum of 75 mm (3") on both sides of the crack.

Surfaces should be tied in with beams, columns, window and door frames, etc., using strips of **Foilskin**® lapped to primed substrate a minimum of 75 mm (3") beyond transition joint. Mechanical attachment should be made to all window and door frames.

Surfaces to receive **Foilskin**® membrane must be primed with **Blueskin® primer** or **Aquatac**^{tm}. 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 2.5 L/m^2 (6 gal US / 100ft^2) for a minimum wet thickness of 3 mm. **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.

Clean Up

Spray equipment can be flushed out with water. Use mineral spirits to remove dried films.

Caution

Harmful if swallowed. <>