



TECHNICAL DATA SHEET
Blueskin[®] SA
Self-Adhered Water Resistive Air Barrier

Physical Property	Typical Value	Test Method
Colour	Blue	-
Thickness, nominal	1.0 mm (40 mils)	-
Application Temperature, minimum	5°C (41°F)	-
Service Temperature	-40°C to 70°C (-40°F to 158°F)	-
Water Vapour Permeance	1.71 ng/Pa.m ² s (0.03 Perms)	ASTM E96, Method A
Water Vapour Permeance	4.57 ng/Pa.m ² s (0.08 Perms)	ASTM E96, Method B
Elongation, minimum	200%	ASTM D412, modified
Tensile Strength, minimum	500 psi	ASTM D412, modified
Puncture Resistance, minimum	178 N (40 lbf)	ASTM E154
Watertightness	Pass	CAN/CGSB-37.58-M86
Nail Sealability	Pass	ASTM D1970
Low Temperature Flexibility @ -30°C (-22°F)	Pass	CGSB 37-GP-56M
Lap Peel Strength @ 4°C (39°F)	> 4378.4 N/m (25.0 lbf/in)	ASTM D903, 180° bend
Water Absorption	0.1%	ASTM D570
Air Leakage @ 75 Pa	0.0011 L/s.m. ² (0.0002 cfm/ft ²)	ASTM E2178
Air Leakage After 3000 Pa Test	No Change	ASTM E330-90
Assembly Air Leakage @ 75 Pa	0.0195 L/s.m. ² (0.0039 cfm/ft ²) - Pass	ASTM E2357, CAN/ULC-S741-08
Air Leakage Rate	Classification A1	CAN/ULC-S742-11
Crack Bridging	Pass	ASTM C1305

Description

Blueskin[®] SA is a self-adhered water resistive air barrier consisting of an SBS rubberized asphalt compound, which is integrally laminated to a blue engineered thermoplastic film surface. It is specifically designed to be self-adhered to a prepared substrate providing an air, vapour and water resistive barrier in full wall applications or as penetration/flashing membrane with other air barrier systems.

Features

- Flexible at low temperatures
- Impermeable to air, moisture vapour and water
- Compatible with Henry[®] **Air-Bloc[®]** fluid applied air barriers
- Self-gasketing when penetrated and under compression with self-tapping screws

Usage

Blueskin[®] SA is designed for use as a self-adhered air, vapour and water resistive barrier. It can also be used as a transition sheet in conjunction with Henry[®] **Air-Bloc[®]** fluid applied air barriers where greater movement is anticipated due to its high strength. **Blueskin[®] SA** is also used for tying into metal on curtain walls, windows and doorframes.

Application

Surface Prep: All surfaces to receive **Blueskin[®] SA** must be clean of oil, dust and excess mortar. Acceptable substrates are exterior-grade gypsum sheathing, plywood, OSB, precast or cast-in-place concrete, concrete block, primed steel, aluminum mill finish, anodized aluminum and galvanized metal. Strike masonry joints flush. Concrete surfaces must be smooth and without large voids, spalled areas or sharp protrusions. Concrete must be cured a minimum of 14 days and must be dry before **Blueskin[®] SA** is applied. Where curing compounds are used, they must be clear resin based, without oil, wax or pigments.

Blueskin® SA Self-Adhered Water Resistive Air Barrier

All surfaces to receive **Blueskin® SA** require an application of **Blueskin® Adhesive**, **Blueskin® LVC Adhesive** or **Aquatac™ Primer** allowed to dry to a tacky film before **Blueskin® SA** is applied. Coated surfaces not covered by membrane during the working day must be recoated. Availability may vary by region.

Apply: Position **Blueskin® SA** for alignment and remove release film and press firmly in place. Roll membrane, including seams, with a countertop roller to ensure full contact once in place. Membrane must be rolled after application to ensure adhesion to substrate and laps. **Blueskin® SA** must be lapped a minimum of 50 mm (2") on both sides and end laps. When using with brick ties, position, press in place and cut for ties or projections. Seal around any openings and at leading edge at the end of the workday with **925 BES Sealant**, **Air-Bloc® 21** or **Air-Bloc® 21FR**. Detail work must be carefully carried out to ensure continuous air tightness of the membrane. It is recommended that mechanical attachment be made to all window and doorframes, or a properly designed sealant joint be provided.

Membrane applied to the underside of the substrate (i.e. ceilings) and extending more than 152 mm (6") onto inverted surfaces requires mechanical fastening through treated wood or galvanized metal strapping, or have insulation mechanically fastened. Fastening must take place immediately after installation of the membrane. Space strapping on 457 mm (18") centres, running perpendicular to the side laps.

Insulation Application: The use of mechanical fasteners through **Blueskin® SA** along changes in plane, such as inside corners, may be required by some insulation manufacturers. Consult insulation manufacturer prior to installation of insulation.

- **Insulation Clips:** Insulation clips should be mechanically fastened through the membrane into the substrate with a self-tapping screw. Apply number of insulation clips as recommended by the insulation manufacturer.
- **Insulation Adhesive: Air-Bloc® 21** or **Air-Bloc® 21FR** should be applied to insulation boards in a serpentine pattern to restrict movement of air behind the insulation. Alternatively, a full coat notched trowel application may be applied to the back of the board. Press insulation firmly in place.

Limitations: Blueskin® SA is designed for exposure up to 90 days if necessary to accommodate construction scheduling, but is not designed for permanent exposure to ultraviolet light and should be covered as soon as practical after application. It is not to be used in direct contact with flexible PVC/vinyl membranes or gaskets. Consult the PVC/vinyl window manufacturer for compatibility.

Packaging

1.22 m x 22.86 m (48" x 75')
914 mm x 22.86 m (36" x 75')
457 mm x 22.86 m (18" x 75')
300 mm x 22.86 m (12" x 75')
225 mm x 22.86 m (9" x 75')
150 mm x 22.86 m (6" x 75')
100 mm x 22.86 m (4" x 75')

Storage

Store rolls on end, on original pallets or elevated platform. Protect from weather or store in an enclosed area not subject to heat over 49°C (120°F). Double stacked pallets are not recommended. If double stacking is necessary, use a plywood sheet to distribute the load.

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