

PRODUCT DESCRIPTION:

FLEX-SEAL Air/Vapour Barrier is a self adhering, cold applied composite sheet membrane comprised of 0.9 mm (36 mils) of rubberized asphalt integrally bonded to a 0.1 mm (4 mils) film of high density, cross laminated polyethylene for a minimum thickness of 1.0 mm (40 mils). For ease of application **FLEX-SEAL Air/Vapour Barrier** is interwound with a disposable silicone treated release paper. **FLEX-SEAL Air/Vapour Barrier** is dark grey to black in colour.

PACKAGING:

FLEX-SEAL Air/Vapour Barrier is available in 25.4 m (83.3 ft) rolls in widths of 457 mm (18 in) and 914 mm (36 in) packaged two and one roll(s) per carton respectively.

USES:

FLEX-SEAL Air/Vapour Barrier is an air seal membrane designed to prevent the passage of air into or out of the building enclosures when incorporated with building envelope construction.

FLEX-SEAL Air/Vapour Barrier is suitable for use in a variety of wall assemblies and in combination with most construction materials including: concrete, masonry, metal and wood/gypsum sheathing.

APPLICATION:

Optimum application temperature range for **FLEX-SEAL Air/Vapour Barrier** is -10°C to 38°C (14°F to 100°F). For installations below -10°C (14°F) consult your Durabond representative.

Ensure that all surfaces are dry, smooth and regular, free of all voids, defects and excessive dust.

Prime all surfaces to receive **FLEX-SEAL Air/Vapour Barrier** using **FLEX-SEAL Primer** applied at a rate of 6 to 8 m²/L (290-405 ft²/imp gal). Allow primer to dry prior to membrane installation. Refer to **FLEX-SEAL Primer** Data Sheet for complete application and handling guidelines.

Typically, begin membrane installation at the base of all wall areas. For ease of application, cut membrane into lengths of 2 m - 3 m (7 ft - 10 ft) and remove release paper. Apply **FLEX-SEAL Air/Vapour Barrier** to the primed substrate. Subsequent sheets

TECHNICAL DATA

PROPERTY	TEST METHOD	FLEX-SEAL
Thickness	ASTM D3767 (Method A)	1 mm (40 mils)
Minimum Tensile Strength (Membrane)	ASTM D412 (die C) (Modified)	2.8 MPa (400 psi)
Minimum Tensile Strength (Film)	ASTM D412 (die C) (Modified)	34.5 MPa (5000 psi)
Minimum Elongation (To Failure of Rubberized Asphalt)	ASTM D412 (die C) (Modified)	200%
Pliability (1) @ -32°C (-25°F)	ASTM D1970	–
Pliability (1) @ -43°C (-45°F)	ASTM D1970	Pass
Crack Cycling, 6 mm (1/4 in) (2) @ -32°C (-25°F)	Durabond B-136	No effect
Joint Cycling, 25mm (1 in) (3) @ -26°C (-15°F)	Durabond B-135	No effect
Minimum Puncture Resistance (Membrane)	ASTM E154	178 N (40 lbf)
Lap Peel Adhesion (4) @ 4°C (40°F)	ASTM D1876 (Modified)	–
Lap Peel Adhesion (4) @ -4°C (25°F)	ASTM D1876 (Modified)	1505 N/m width (8.6 lbf/in width)

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MOISTURE PROTECTION
COLD APPLIED SELF-ADHESIVE
COMPOSITE SHEET MEMBRANE

TECHNICAL DATA (CONT'D.)		
PROPERTY	TEST METHOD	FLEX-SEAL
Maximum Permeance to Water Vapour Transmission (Membrane)	ASTM 396 (Method B)	2.9 ng/Pa·s·m ² (0.05 Perms)
Air Permeance of In Place Membrane [Air Pressure @ 75 Pa (0.02 in Hg)]	ASTM E283	0.000 08 L/s·m ² (0.000 004 ft ³ /min·ft ²)
Resistance to 3000 Pa (0.89 in Hg)	ASTM E330	No change in air permeance value
Water Absorption (Weight gain @ 24 hrs)	ASTM D570-81	0.1%

shall overlap the previous sheet by 51 mm (2") average, 38 mm (1.5") minimum.

The membrane shall be pressed firmly into place by means of a hand roller, thereby ensuring continuous and intimate contact with the substrate.

Upon completion of the **FLEX-SEAL Air/Vapour Barrier** installation and to ensure integrity, apply **FLEX-SEAL Mastic** at the base of all wall projections.

Installation of the wall insulation shall follow as closely as possible the application of the **FLEX-SEAL Air/Vapour Barrier**. Consult **FLEX-SEAL Air/Vapour Barrier Guide Specification** for further assistance.

COVERAGE:

As supplied in 23.3 m² (250 ft²) cartons, **FLEX-SEAL Air/Vapour Barrier** in 914 mm (36 in) width attains an approximate coverage of 21.9 m² (236 ft²) per roll and 457 mm (18 in) width, 20.6 m² (222 m²) per carton (2 rolls), based on sidelaps of 51 mm (2 in). For estimating purposes, a wastage factor of 3% should be included to account for misaligned laps, reinforcing requirements and repairs.

STORAGE:

Store **FLEX-SEAL Air/Vapour Barrier** where temperature is not expected to exceed 38°C

(100°F). Store away from open flames, heaters, furnace rooms or similar sources of heat. **FLEX-SEAL Air/Vapour Barrier** shall be stored on raised platforms and protected from precipitation by use of weatherproof coverings. Do not double stack pallets of membrane.

LIMITATIONS:

FLEX-SEAL Air/Vapour Barrier is not intended for permanent exposure. Upon completion of the installation, membrane shall be protected from direct sunlight. **FLEX-SEAL Air/Vapour Barrier** shall be continuously supported by the substrate and is not intended to span voids or bridge gaps in the wall construction. For further assistance consult your Durabond representative.

CAUTION:

Make reference to applicable Material Safety Data Sheets for information on the safe storage and handling of **FLEX-SEAL Primer**, **FLEX-SEAL Mastic** and all products within the Durabond Product Line. This information can be provided by contacting **Durabond Products Limited** located in Toronto, Ontario at (416)-759-4474.

DURabond

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