

Durex FlexSeal Membrane

Composite Sheet Air/Vapour-Barrier Membrane

- Description** Durex® FlexSeal Membrane 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 Durex® FlexSeal Membrane Air/Vapour Barrier is inter-wound with a disposable silicone-treated release paper. Durex® FlexSeal Membrane Air/Vapour Barrier is dark grey to black in colour.
- Uses** Durex® FlexSeal Membrane 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. Durex® FlexSeal Membrane 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.
- Features**
- Excellent adhesion to various substrates.
 - Ideal for sprayed polyurethane foam insulation.
 - Self-sealing membrane ensuring continuous waterproofing.
 - Available in 36", 18", and 6" roll widths.

TECHNICAL DATA

PHYSICAL PROPERTIES

Coverage	In 914 mm (36 in) width rolls, average coverage of 21.90 m ² (236 ft ²) per roll. In 457 mm (18 in) width rolls, average coverage of 20.6 m ² (222 ft ²) per carton (2 rolls). Quantities based on side laps 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.
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PERFORMANCE PROPERTIES

PERFORMANCE PROPERTIES	METHOD	RESULT
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 B136	No effect
Joint Cycling, 25 mm (1 in) (3) @ -26°C (-15°F)	Durabond B135	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)
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 004ft 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	0.1%

Packaging Durex® FlexSeal Membrane 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.

Storage Store Durex® FlexSeal Membrane 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. Durex® FlexSeal Membrane 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.

Application Optimum application temperature range for Durex® FlexSeal Membrane 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 Durex® FlexSeal Membrane Air/Vapour Barrier using Durex® FlexSeal Membrane 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 Durex® FlexSeal Membrane 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 Durex® FlexSeal Membrane Air/Vapour Barrier to the primed substrate. Subsequent sheets 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 Durex® FlexSeal Membrane 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 Durex® FlexSeal Membrane Air/Vapour Barrier. Consult Durex® FlexSeal Membrane Air/Vapour Barrier Specification for further assistance.

Limitations

Durex® FlexSeal Membrane Air/Vapour Barrier is not intended for permanent exposure. Upon completion of the installation, membrane shall be protected from direct sunlight. Durex® FlexSeal Membrane 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

Refer to the Material Safety Data Sheet for information on the safe storage and handling of Durex® FlexSeal Membrane Primer, Durex® FlexSeal Membrane 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.

Health and Safety

For information and advice on the safe handling, storage and disposal of chemical products, refer to the most recent SDS sheet containing physical, environmental, toxic and other safety/materials handling data. For industrial use only. Keep out of reach of children.

Warranty

Durabond warrants this product is free of manufacturing defects, and will replace at no charge, provided it has been applied within 12 months of purchase, it has been installed for uses suitable for this product and in accordance with the manufacturer's instructions.

Technical Services

Technical support is available upon request at info@durabond.com. For the latest version of this data sheet, please visit our website at www.durabond.com, call toll free at 1-877-DURABOND (387-2266) or speak with your Durabond Products Ltd. sales representative.



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