

DESCRIPTION & USE

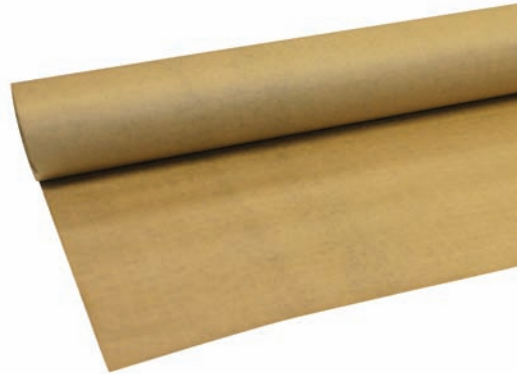
- Fabricated from two plies of high strength kraft paper, laminated together with a specially modified asphalt
- Edges are reinforced with glass fibre for strength and tear resistance during construction
- Designed to restrict moisture vapour from passing into conventional low slope roof assemblies
- Ideal for use in buildings located in colder climatic regions that are subject to strong wintertime vapour drives

FEATURES & BENEFITS

- **Inexpensive Roof Protection** - Helps protect the roof assembly from the damaging effects of internal building humidity
- **Edge Reinforced** - to better resist accidental tearing during construction
- **Resistant to Hot Bitumen** - Will not melt or deteriorate when contacted with hot bitumen
- **Excellent Adhesion** - Adheres well to hot bitumen and most insulation adhesives
- **Works with Mech. Fast. Insulation** - Performance of Permamate™ is not significantly impaired by mechanically fastened insulation or membrane

TECHNICAL DATA

PERMATE™ - PROPERTIES	
PROPERTY	TYPICAL RESULTS
MVTR (Unaged)	30 ng/Pa•s•m ² (0.50 Perms)
MVTR (Aged) (ASTM E-96, Proc. A)	33 ng/Pa•s•m ² (0.55 Perms)
Tensile Strength XD	5.2 kN / m (30.0 lbf / in)
Tensile Strength MD	9.7 kN / m (55.0 lbf / in)
Shrinkage	Negligible
Flexibility @ 15°C (5°F)	Excellent
Weight	0.163 kg / m ² (3.4 lbs / 100ft ²)
Roll Sizes	160 cm x 116 m (63" x 381') 244 cm x 76 m (96" x 250')



Approvals & Compliances

Factory Mutual: FM Class 1 Construction
CAN/CGSB-51.33-M89, Type II.

Limitations

- Though used in fire-rated assemblies, Permamate™ is flammable. Keep torch flames away from Permamate™ Vapour Retarder.
- Permamate™ Vapour Retarder should be kept dry during construction. The adhesive and sealing characteristics of the membrane will be impaired if the surface is wet.

INSTALLATION

Preparation

1. Store the vapour retarder at the job site in a clean, dry location above the ground. Protect rolls from cuts, nicks and other abuse.
2. Only install as much vapour retarder (and insulation) as can be completely protected by the roofing membrane each day. Do not install vapour retarder in rain or inclement weather.
3. Broom clean the deck prior to installation, removing all dirt, debris, oil and grease. Substrate must be free of all sharp or protruding objects that could tear the vapour retarder membrane.

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COMMERCIAL BUILDING PRODUCTS

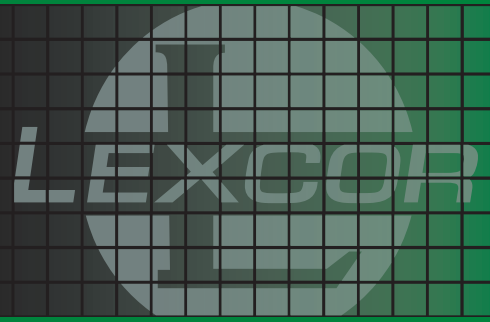
Ontario & Western Canada
1.800.268.2889



Quebec & Eastern Canada
1.800.363.2307

PERMATE™

Vapour Retarder



Installation

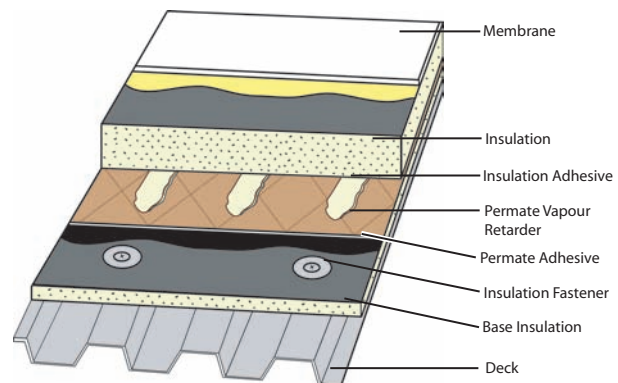
4. If applying to a fluted steel deck, vapour retarder must be installed parallel to the flutes, with all side laps centered over an upper flute. Side laps must be lapped a minimum of 2" (50 mm), ends; 6" (150 mm).
5. FULLY ADHERED APPLICATION: Apply continuous parallel ribbons of Permte Adhesive on 6" (15 cm) centers over the area to be covered by the vapour retarder roll (centered along each flute on steel decks) at the rate of 0.16 l / m² (0.4 gallons / 100 ft²). Ensure that one ribbon of adhesive is applied to the top of any previous roll's edge to seal the lap. Unroll the vapour retarder into the adhesive, ensuring a positive contact. Roll the side laps with a roller to ensure a good seal. Repeat this procedure for all subsequent rolls, sealing all end laps with a minimum 6" (150 mm) wide strip of Permte Adhesive.
6. LOOSE LAID APPLICATION (Acceptable only if ballasting or mechanically fastening insulation over vapour retarder): Unroll the first vapour barrier roll and immediately install the (ballasted or mechanically fastened) roof insulation over top, leaving at least one foot (30 cm) of vapour retarder exposed on all sides. Using a brush or roller, liberally apply a minimum 2" (50 mm) wide strip of Permte Adhesive to the upper surface of the side laps and a 6" (150 mm) wide strip of Permte Adhesive to the upper surface of the end laps. Unroll the next vapour retarder roll, overlapping the previous roll the required distance to form the seam. After rolling the seam area to ensure a good seal, continue positioning insulation over the lap and onto the adjacent vapour barrier roll. Repeat this procedure for the remaining area to be covered.
7. FLASHING: Apply Permte™ Adhesive to the substrate and adhere the vapour barrier tightly around the detail. Cut pieces of vapour retarder [minimum 2" (50 mm) wider on all sides than the affected area] may be adhered in liberal applications of adhesive to ensure a tight seal. At perimeters, carry the vapour retarder up to the upper level of the roof insulation and adhere it to the underside of the roof membrane with a membrane compatible adhesive. Use good flashing practices to ensure a moisture tight seal.

8. EXPANSION JOINTS: Ensure that Permte Adhesive is applied to either edge of the expansion joint. Carry vapour retarder over the expansion joint but provide sufficient slack to allow for the maximum expected expansion of the joint. Press the vapour retarder into the adhesive on either side of the joint.

SAMPLE SPECIFICATION

Vapour retarder shall be a Factory Mutual approved, bitumen resistant Type II vapour retarder in accordance with CAN/CGSB 51-33-M89, consisting of a kraft / asphalt / kraft lamination, edge reinforced with glass fibre strands and demonstrating a typical moisture vapour transmission rate of [30 ng/Pa•s•m²; 0.5 perms] according to ASTM E 96, Procedure A. Vapour retarder shall be [seamed; applied] with the manufacturer's approved adhesive, in strict accordance with the manufacturer's installation instructions.

ACCEPTED PRODUCT: Permte™ Vapour Retarder by Lexcor (www.lexcor.net, Tel: 800.268.2889, E-Mail: info@lexcor.net).



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