

DESCRIPTION & USE

Lexcor PE-10 is a heavy gauge polymeric vapour retarder specifically designed for use with single-ply roofing systems and as an underslab vapour retarder. Highly impermeable to moisture vapour transmission, PE-10 protects the roof insulation and membrane system components from the damaging effects of building humidity.

PE-10 may be used over any type of deck (concrete, steel, wood). Insulation must be either mechanically fastened or loose laid and ballasted. PE-10 sheets are normally loose laid onto the roof deck and then seamed together with Lexshield Tape or an approved sheathing tape.

FEATURES & BENEFITS

Impermeable - PE-10's high resistance to moisture vapour assures that the full insulating value of the insulation is retained over the long term.

Rugged & Resistant - PE-10's heavy gauge film resists tears and abrasion due to strong winds or rough handling during construction.

Large Rolls - 2,000 sq. ft. rolls make installation exceedingly fast.

Easy to Seam - PE-10 sheets are quickly seamed together with Lexshield Tape or an approved sheathing tape.

Seals to Walls or Air Barriers - PE-10 can be effectively sealed airtight to all common air barrier systems including bitumen based systems.

CAUTIONS & LIMITATIONS

Avoid exposure to sunlight or ultra-violet light. Exposure to direct sunlight should not exceed 7 days. Avoid exposure to materials containing solvents, oils or bituminous chemicals.

SHORT FORM SPECIFICATION

Vapour Retarder shall be Lexcor PE-10 vapour retarder, a 0.25mm thick polyethylene sheet demonstrating a maximum moisture vapour transmission rate of 1.1 ng/Pa·s·m² according to ASTM E-96, procedure B. Vapour retarder sheets shall be sealed together and to walls and protrusions with Lexshield Tape. Installation shall be in strict accordance with Lexcor instructions.



TECHNICAL DATA

Physical Properties - PE-10	
Polymer:	L.D. Polyethylene
Nominal Thickness (ASTM D-2103):	0.25 mm (10 mil)
Water Vapour Permeance (ASTM E-96 Proc. B):	1.1 ng/Pa·s·m ² (0.02 Perms)
Tensile Strength (ASTM D-882):	MD: 24.0 MPa TD: 23.0 MPa
Elongation (ASTM D-882):	MD: 1000% TD: 1060%
Impact Strength (ASTM D-1709):	850 g
Resistant to (CGSB 51-34-M86):	Oxidation Ultraviolet

Physical Properties - Lexshield Tape	
Material:	High Density Poly with high tack adhesive
Width:	4"
Vapour Permeance (ASTM E 96):	5.7 (0.1 Perms)
Air Permeance (ASTM E 2178-03):	@ 75 Pa P.D. 0.0023 L/s/m ² @300 Pa P.D. 0.0074 L/s/m ²

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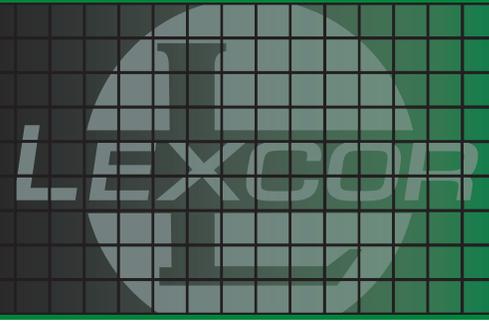
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PE-10

Vapour Retarder Membrane



INSTALLATION INSTRUCTIONS

1. Unroll PE-10 sheet and position loosely over the deck. Vapour Retarder must extend up all curbs, parapets, walls and roof protrusions to the same height as the top of the insulation layer. Overlap adjacent sheets a minimum of 4 cm (1.5") on the sides and ends. If on steel deck, ensure side lap area is centred over an upper flute.

Sealing to Walls, Parapets, Roof Edge or Protrusions

2. Seal with Lexshield Tape or an approved sheathing tape.

Roof Membrane & Insulation Installation

3. Install insulation, roofing membrane and ballast/securement system (as per the system supplier's installation instructions) over the positioned vapour retarder sheet, leaving approximately 30cm (1 foot) of the vapour retarder exposed along field edges.

Field Splicing

4. Fold upper vapour retarder sheet edge back 15 cm (6") and ensure lap areas on membranes are clean and dry.
5. With release paper left on, unroll Lexshield Tape and press tape (adhesive side down) onto the backside of the upper membrane along the edge of the sheet. Overlap splice tape ends 3cm (1") where required.
6. Peel off splice tape release paper and let the upper membrane fall into place over the lower membrane. Roll the splice area heavily with a hand roller, ensuring a complete seal.

Repeat all above steps for remainder of the roof.

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