



W. R. MEADOWS®

SEALTIGHT®

DATA SHEET NO. 5243-320

## PERMINATOR® HP 15 Mil Underslab Vapour Barrier (High Puncture Resistance)

### DESCRIPTION

PERMINATOR HP underslab vapour barrier is a new generation of polyolefin-based resin/chemical technology. PERMINATOR HP provides the vapour barrier industry with a highly effective, economical choice for helping to reduce the penetration of moisture and water vapour through the slab into the structure, thereby helping to reduce fungus, mildew, and mould growth. PERMINATOR HP also helps reduce radon gas from entering the structure.

**New resin technology allows dramatically greater puncture resistance while maintaining one of the lowest perm ratings in the market.**

PERMINATOR HP is tough enough to withstand normal construction jobsite conditions and traffic. It will not crack, puncture, snag, split, or tear easily.

PERMINATOR HP prevents uncontrolled moisture from entering the slab allowing the slab to maintain the maximum slab moisture emission rate and relative humidity level as allowed by flooring manufacturer's specifications.

PERMINATOR HP rolls require fewer seams in application. Installation is quick and easy. All joints/seams, both side and end, should be overlapped 152.4 mm (6") and taped using 101.6 mm (4") wide PERMINATOR TAPE from W. R. MEADOWS. PERMINATOR HP rolls fast and smoothly over level tamped soil or compacted fill.

### USES

PERMINATOR HP underslab vapour barrier is primarily designed for underslab construction, where the soil has been tamped and levelled or compacted fill has been applied. The 61 m (200') long sheets are unrolled as is or cut to size and installed using the overlapping method. Overlaps are 152.4 mm (6") wide and these seams are sealed using 101.6 mm (4") wide PERMINATOR TAPE.

PERMINATOR HP can also be used as a protection course for waterproofing membranes. The desired sheet lengths are cut to size and retained at the top of the waterproofing membranes by PERMINATOR TAPE or TERMINATION BAR from W. R. MEADOWS.

### FEATURES/BENEFITS

- Helps reduce the penetration of moisture and water vapour through the slab into the structure.
- Helps reduce fungus, mildew, and mould.
- Helps reduce radon gas from entering a structure.
- Resistant to methane gas.
- Tough enough to withstand normal construction jobsite conditions and traffic ... will not crack, puncture, snag, split, or tear easily.
- Installs quickly and easily over tamped grade ... no gravel, fill, or sand needed.
- Rolls require fewer seams in application.
- PERMINATOR HP prevents uncontrolled water vapour from entering the slab allowing the slab to maintain the maximum slab moisture emission rate and relative humidity level as allowed by flooring manufacturer's specifications.
- VOC content is 0 g/L.

### PACKAGING

3.66 m (12') Wide, 61 m (200') Long Rolls

### SPECIFICATIONS

- Meets or exceeds all requirements of ASTM E 1745-11 Class A, B & C.

Continued over ...

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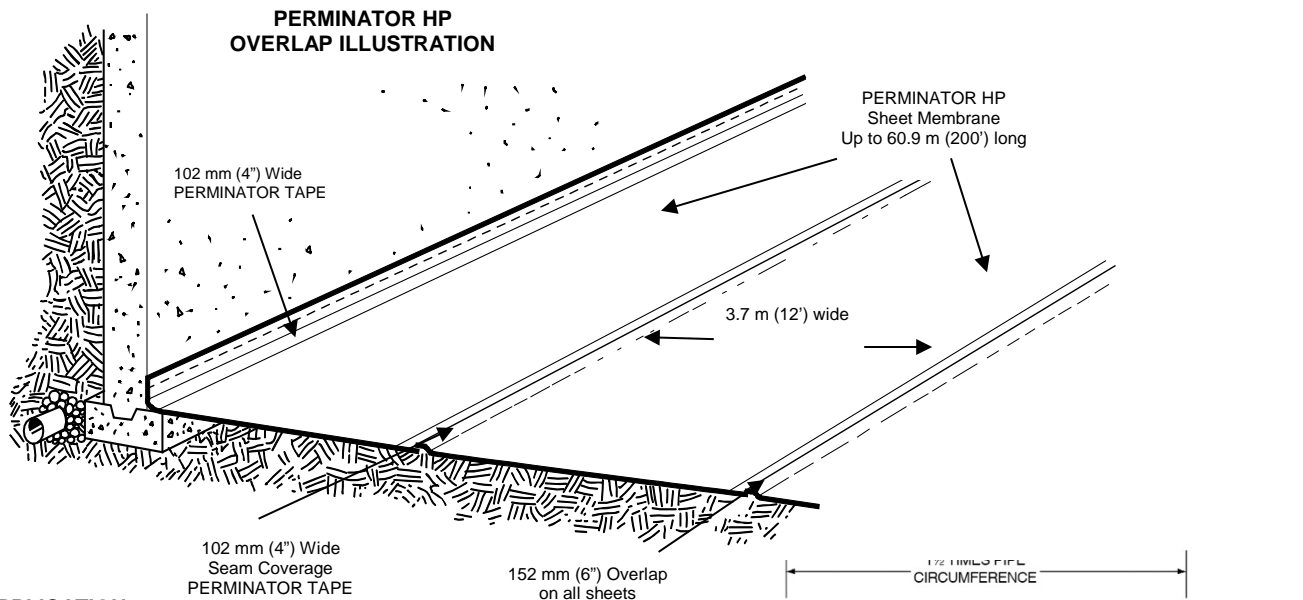
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**TECHNICAL DATA**

<b>WATER VAPOUR PERMEANCE RATING</b>		<b>TENSILE STRENGTH</b>	<b>PUNCTURE RESISTANCE</b>	<b>RADON DIFFUSION COEFFICIENT</b>
ASTM E 96, Water Method		ASTM E 154, Section 9	ASTM D 1709, Method B	k124/02/95
<b>PERMS</b>	<b>WVT</b>	<b>LB. FORCE/INCH Kn/M</b>	<b>GRAMS</b>	
0.018	0.0049 g/h.m <sup>2</sup> 0.007 g/ft. <sup>2</sup> /hr.	84 14.7 kN/m	4135	K = 8.74 x 10 <sup>-12</sup> m <sup>2</sup> /s

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**WARRANTY:** W. R. Meadows of Canada warrants that, at the time and place we make shipment, our materials will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM OF TRADE OR OTHERWISE. As the exclusive remedy for breach of this Warranty, we will replace defective materials, provided, however, that the buyer examine the materials when received and promptly notify us in writing of any defect before the materials are used or incorporated into a structure. Three (3) months after W. R. Meadows of Canada has shipped the materials, all our Warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates and no action for breach of any such duties may thereafter be commenced. W. R. Meadows of Canada shall in no event be liable for consequential damages. Unless otherwise agreed to in writing, no warranty is made with respect to materials not manufactured by W. R. Meadows of Canada. We cannot warrant or in any way guarantee any particular method of use or application or the performance of materials under any particular condition. Neither this Warranty nor our liability may be extended or amended by our salesmen, distributors or representatives, or by our distributor's representatives, or by any sales information or drawings.



### APPLICATION

**Surface Preparation ...** Level, tamp, or roll earth or granular material beneath the slab base as specified by supplied architectural drawings. Follow ASTM E 1643-10 (standard practice and procedure for installation of vapour retarder used in contact with earth or fill under concrete slabs). Reference ACI 302.1R-04: Chapter 4, Section 4.1.4 – Base Material for sub-grade preparation prior to placement of PERMINATOR HP.

**Horizontal Application ...** Unroll 61 m (200') PERMINATOR HP over the area where the slab is to be poured. Cut to size if necessary. PERMINATOR HP should completely cover the pour area. All joints/seams, both side and end, should be overlapped 152.4 mm (6") and taped using 101.6 mm (4") wide PERMINATOR TAPE. (Note: The PERMINATOR TAPE area of adhesion should be free from dust, dirt, and moisture to allow maximum adhesion of the pressure-sensitive tape.)

The most efficient installation method includes placing PERMINATOR HP on top of the footing and against the vertical wall. This will sandwich PERMINATOR HP between the footing, vertical wall, and poured concrete floor. (See illustration.) This will help protect the concrete slab from external moisture sources once the slab has been placed.

Before placing concrete slab, make sure all penetrations, block outs, and damaged areas are repaired/addressed.

Numerous municipal building codes do not allow the placement of vapour barriers over the footing, due to breaking of the bond between the wall and footing. Although this is not an optimal application method, W. R. MEADOWS approves this alternate method when required by building code.

**Seal All Protrusions ...** Cut a slit around pipes, ductwork, rebar, and wire penetrations to place the initial layer of PERMINATOR HP. To further protect the concrete slab from external moisture sources, use a piece of PERMINATOR HP and place a collar around these as well.

1. Cut a piece of PERMINATOR HP a minimum width of 304.8 mm (12"). The length should be 1.5 times the pipe circumference. With a roofer's knife or scissors, cut "fingers" half the width of the film. See figure 1.
2. Wrap around and tape the collar onto the pipe and completely tape fingers to the bottom layer of PERMINATOR HP, as shown in figure 2.

In the event that PERMINATOR HP is damaged during or after installation, repairs must be made. Cut a piece of PERMINATOR HP large enough to cover any damage by a minimum overlap of 152.4 mm (6") in all directions. Clean all adhesion areas of dust, dirt, and moisture. Tape down all edges using PERMINATOR TAPE.

**NOTE:** It is not necessary to overlay PERMINATOR HP with gravel or sand. PERMINATOR HP is tough enough to withstand normal construction abuse and traffic. Most flooring companies recommend the placement of the concrete slab directly on the vapour barrier. We agree, since this eliminates the potential for trapping moisture in a blotter-effect, causing it to resurface through the slab into the flooring systems. Consult local building codes and regulations, plus architectural and design firm guidelines, prior to application.

**Vertical Wall Application ...** Install MEL-ROL® waterproofing membrane or MEL-ROL LM liquid waterproofing membrane according to installation instructions. While the membrane is still tacky, install PERMINATOR HP as a protective course over the applied waterproofing membrane. Using TERMINATION BAR with concrete nails or PERMINATOR TAPE at the termination of the waterproofing membrane is advisable in some applications. Supervised care must be taken during backfilling against the material so that it is not damaged or punctured. If damage occurs, patch using the techniques outlined previously. When applying PERMINATOR TAPE to foundation walls, MEL-PRIME™ adhesive may be used to increase bond.

## ACCESSORIES

MEL-DRAIN<sup>®</sup> rolled matrix drainage system is designed to remove moisture from around footings and relieve hydrostatic head pressures. Several different versions are available.

MEL-ROL LM or POINTING MASTIC may be used for small stakes, small pipe, and rebar penetrations. Cut PERMINATOR HP just big enough for the penetration. Liberally apply MEL-ROL LM or POINTING MASTIC around the penetration to keep the integrity of the PERMINATOR HP membrane intact. MEL-ROL LM can be applied by brush, roller, or sprayer. POINTING MASTIC can be applied by caulking gun or trowel.

PERMINATOR TAPE is a self-adhesive tape for use in sealing vapour retarder seams and attachment to footings, protrusions, etc. It is offered in 10 cm (4") widths and roll lengths of 55 m (180')/roll. It is packaged twelve rolls per carton. Coverage: One box of tape will adhere approximately 10 rolls of PERMINATOR HP.

TERMINATION BAR is provided in 3 m (10') lengths to attach PERMINATOR HP to walls as a protection course for vertical surface waterproofing applications.

## PRECAUTIONS

PERMINATOR HP underslab vapour barrier does not negate the need for relief of hydrostatic heads. A complete drain tile system should be placed on the exterior of the footing and, in severe cases, on the interior of the footing as well. For maximum concrete performance and durability, the concrete floor slab design should provide for the lowest possible slump, yet assure complete hydration of the concrete.

## MASTERFORMAT NUMBER AND TITLE

03 33 00 - Architectural Concrete

07 26 16 - Below-Grade Vapour Retarders

## LEED INFORMATION

May help contribute to LEED credits:

- EA Credit 1: Optimize Energy Performance
- IEQ Credit 3.1: Construction Indoor Air Quality Management Plan: During Construction
- IEQ Credit 7.1: Thermal Comfort - Design
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials
- SS Credit 3: Brownfield Redevelopment

For CAD details, most current data sheet, further LEED information, and SDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).

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