



DATA SHEET NO. 7260-723

PERMINATOR® 10 and 15 Mil Underslab Vapour Barrier

DESCRIPTION

PERMINATOR underslab vapour barrier is a new generation of polyolefin-based resin/chemical technology. PERMINATOR 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 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 is tough enough to withstand normal construction jobsite conditions and traffic. It will not crack, puncture, snag, split, or tear easily.

PERMINATOR 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 is available in 10 mil and 15 mil thicknesses. Both products are furnished in 61 m (200') long rolls.

PERMINATOR's 3.66 m (12') wide (15 mil) and 4.57 m (15') wide (10 mil) 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 rolls fast and smoothly over level tamped soil or compacted fill.

USES

PERMINATOR 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 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.

The product can also be used in crawlspace applications.

FEATURES/BENEFITS

- Available in 10 mil and 15 mil thicknesses, in 61 m (200') long rolls.
- 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.
- 3.66 m (12') wide (15 mil) and 4.57 m (15') wide (10 mil) rolls require fewer seams in application.
- PERMINATOR 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.
- 10 or 15 mil thickness clearly marked on membrane for easy visual identification on jobsite
- VOC content is 0 g/L.

PACKAGING

10 mil: 4.57 m (15'), 61 m (200') long
15 mil: 3.66 m (12'), 61 m (200') long

*Factory welds are available by special order if larger width rolls are required.

SPECIFICATIONS

- Meets or exceeds all requirements of ASTM E1745 Class A, B & C.
- American Concrete Institute (ACI) 302.2R: Guide for Concrete Slabs that Receive Moisture Sensitive Flooring Materials makes a suggestion to use materials having 0.01 perms when flooring materials require protection lower than that determined by ASTM E1745. PERMINATOR 15 mil meets this requirement.

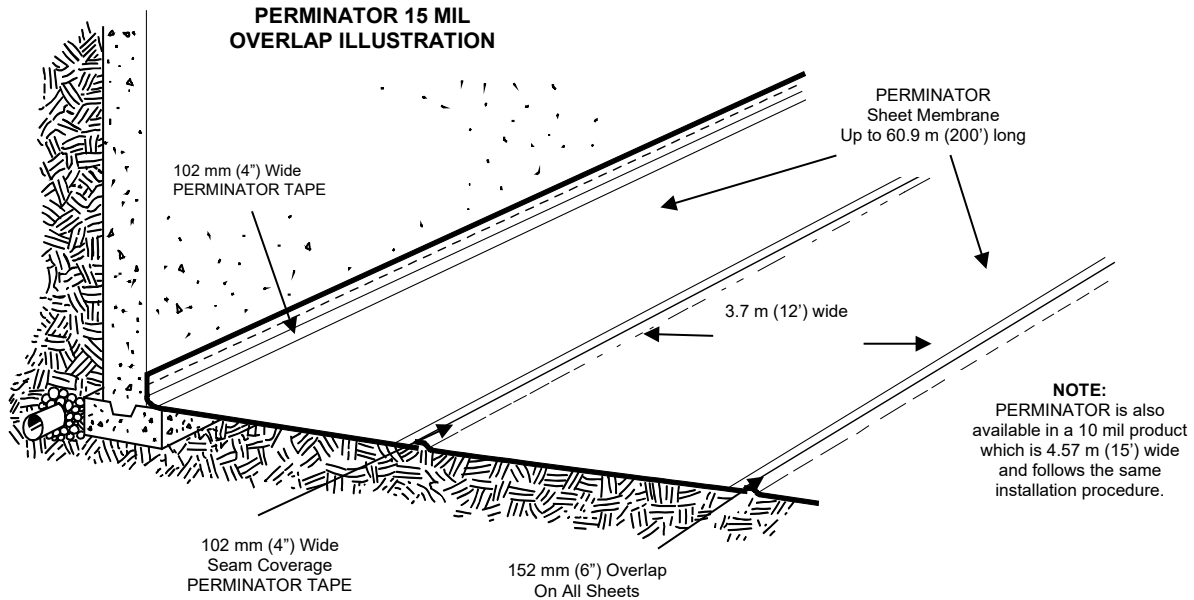
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TECHNICAL DATA

Properties	PERMINATOR (10 Mil)	PERMINATOR (15 Mil)
Water Vapor Permeance, ASTM E-96 Perms	0.0183	0.0063
Puncture Resistance ASTM D1709 Method B Grams	>3500	>3200
Tensile Strength ASTM E154 Section 9 Lb. Force/Inch (kN/m)	52 (9.12)	72 (12.61)
Water Vapor Permeance After Wetting Out Drying Out and After Long-Term Soaking ASTM E-154 Section 8 ASTM E-96 Procedure B	Perms 0.0219	0.0052
Water Vapor Permeance Resistance to Plastic Flow and Elevated Temperature ASTM E-154 Section 11 ASTM E-96 Procedure B	Perms 0.0197	0.0057
Water Vapor Permeance Effect Low Temperature and Flexibility ASTM E-154, Section 12 ASTM E-96, Procedure B	Perms 0.0212	0.0052
Water Vapor Permeance Resistance to Deterioration From Organisms and Substances in Contacting Soil ASTM E-154, Section 13 ASTM E-96 Procedure B	Perms 0.0198	0.0052
Radon Transmittance, m/s k124/02/95	3.7×10^{-8}	8.7×10^{-9}
Radon Coefficient (m2/s)	9.4×10^{-12}	3.3×10^{-12}



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APPLICATION

Surface Preparation ... Level, tamp, or roll earth or granular material beneath the slab base as specified by supplied architectural drawings. Follow ASTM E1643-10 (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.

Horizontal Application ... Unroll 61 m (200') PERMINATOR over the area where the slab is to be poured. Cut to size if necessary. PERMINATOR 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 on top of the footing and against the vertical wall. This will sandwich PERMINATOR 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. To further protect the concrete slab from external moisture sources, use a piece of PERMINATOR and place a collar around these as well.

1. Cut a piece of PERMINATOR 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, as shown in figure 2.

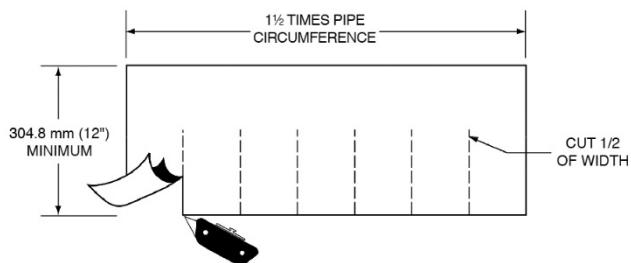
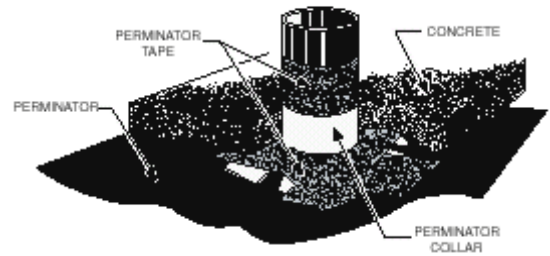


Figure 2 PERMINATOR COLLAR INSTALLATION



In the event that PERMINATOR is damaged during or after installation, repairs must be made. Cut a piece of PERMINATOR 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 with gravel or sand. PERMINATOR 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 according to installation instructions. While the membrane is still tacky, install PERMINATOR 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® 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 just big enough for the penetration. Liberally apply MEL-ROL LM or POINTING MASTIC around the penetration to keep the integrity of the PERMINATOR 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.

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

PRECAUTIONS

PERMINATOR 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. Refer to Safety Data Sheet for complete health and safety information.

MASTERFORMAT NUMBER AND TITLE

03 33 00 - Architectural Concrete

07 26 16 - Below-Grade Vapour Retarders

LEED INFORMATION

May help contribute to LEED credits:

- EAp2: Minimum Energy Performance
- EAc2: Optimize Energy Performance
- MRc9: Construction and Demolition Waste Management

For CAD details, most current data sheet, further LEED information, and SDS, visit www.wrmeadows.com.

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