



DATA SHEET NO. 5243-464

PERMINATOR® 20 MIL

20 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.

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 (20 MIL) is furnished in 105' (32 m) long rolls.

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. 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 32 m (105') 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 32 m (105') 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.
- 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 manufacturers' specifications.
- 20 mil thickness clearly marked on membrane for easy visual identification on jobsite
- VOC content is 0 g/L.

PACKAGING

4.3 m (14'), 32 m (105') long

SPECIFICATIONS/STANDARDS

- Meets or exceeds all requirements of ASTM E1745 Class A, B & C.
- ACI 302.2R: Guide for Concrete Slabs that Receive Moisture Sensitive Flooring Materials

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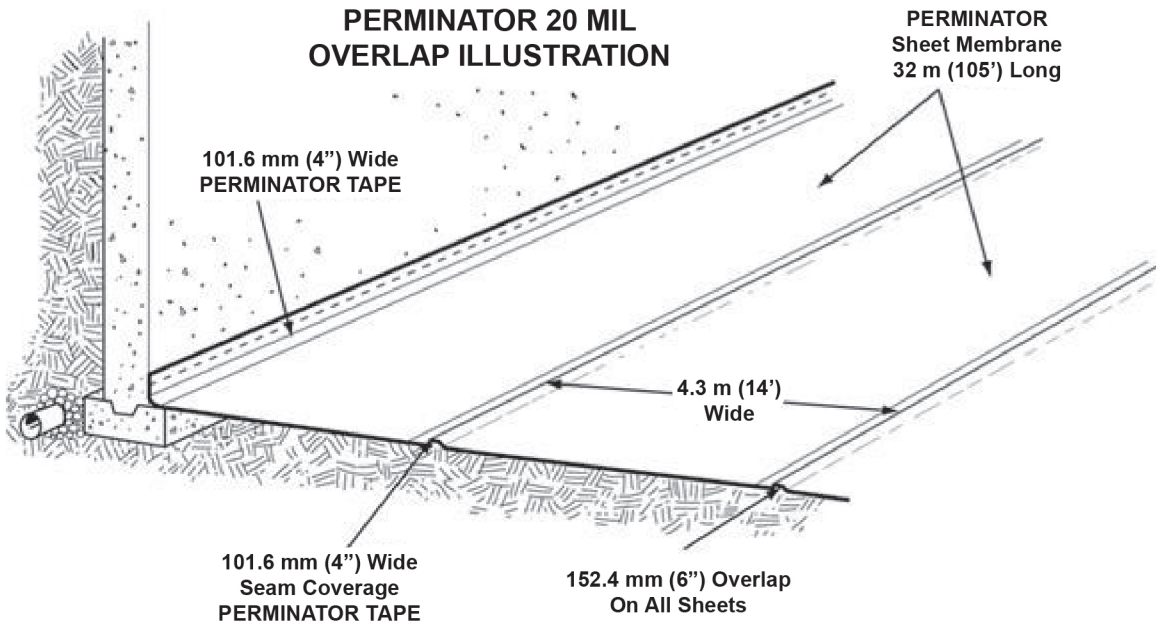
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TECHNICAL DATA

PROPERTY	TEST METHOD	TYPICAL TEST RESULTS
Water Vapor Permeance:	ASTM E96	0.005 perms
Tensile Strength:	ASTM E154, Section 9	105 lbf/in
Puncture Resistance:	ASTM D1709, Method B	>3500 g
Methane Gas Permeability:	ASTM D1434, Procedure V	1.815×10^{-1} GTR (L/m ² *24hr)
Radon Transmittance ¹ :	SP Method No. 3873	$<3.0 \times 10^{-9}$ m/s

Footnote 1: SP Method No. 3873 cannot report radon transmittance values lower than 3.0×10^{-9} m/s, as normal indoor background radon levels interfere with measurements below this threshold.



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.

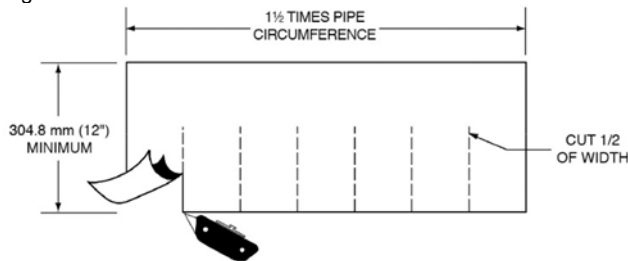
Horizontal Application ... Unroll PERMINATOR over the area where the slab is to be poured. Cut to size if necessary. PERMINATOR should completely cover the pour area. All joints/seams, both side and end, should be overlapped 152.4 mm (6") and taped using 101.6 mm (4") wide PERMINATOR TAPE. (Note: The 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.

Figure 1: Collar



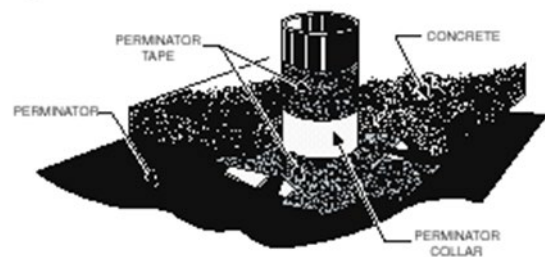
Seal All Protrusions ... Cut a slit around pipes, ductwork, rebar, and wire penetrations to place the initial layer of PERMINATOR. To further protect the concrete slab from external moisture sources, use a piece of PERMINATOR and place a collar around these as well.

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.

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.

Figure 2 PERMINATOR COLLAR INSTALLATION



Vertical Wall Application ... Install the appropriate W. R. MEADOWS waterproofing membrane, such as MEL-ROL®, MEL-ROL LM, HYDRALASTIC 836, MEADOW-PRUF® CO-SPRAY, or VERTIBARRIER NS 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 from W. R. MEADOWS 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.

MEL-ROL LM, POINTING MASTIC, and MEL-ROL LIQUID MEMBRANE (two-component) may be used for stakes, small pipe, and rebar penetrations. Cut PERMINATOR just big enough for the penetration. Liberally apply MEL-ROL LM, POINTING MASTIC, or MEL-ROL LIQUID MEMBRANE 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. MEL-ROL LIQUID MEMBRANE can be applied by 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.

LIMITATIONS/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

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

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