PERMINATOR®
10 mil and 15 mil Underslab Vapor Barrier

DESCRIPTION
PERMINATOR underslab vapor mat is a new generation of polyolefin-based resin/chemical technology. PERMINATOR provides the vapor barrier industry with a highly effective, economical choice for helping to reduce the penetration of moisture and water vapor through the slab into the structure, thereby helping to reduce fungus, mildew and mold 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 helps meet and maintain the maximum slab moisture transfer rate of 3 lbs/1000 sq. ft./24 hours, as allowed by the flooring industry’s specifications.

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

PERMINATOR’s 12-foot wide (15 mil) and 15-foot wide (10 mil) rolls require fewer seams in application. Installation is quick and easy. All joints/seams, both lateral and butt, should be overlapped 6” and taped using 4” wide PERMINATOR TAPE. PERMINATOR rolls fast and smoothly over level tamped soil or compacted fill.

SPECIFICATIONS
Meets or exceeds all requirements of ASTM E 1745 Classes A, B & C.

USES
PERMINATOR underslab vapor mat is primarily designed for underslab construction, where the soil has been tamped and leveled or compacted fill has been applied. The 200-foot (61m) long sheets are unrolled as is or cut to size and installed using the overlapping method. Overlaps are 6” wide and these seams are sealed using 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. PERMINATOR 10 mil is also ideal for use over horizontal applications of MEL-ROL® LM.

**FEATURES/BENEFITS**

- Available in 10 mil and 15 mil thicknesses, in 200-foot (61 m) long rolls.
- Offers economical alternatives for projects requiring only a vapor retarder.
- Helps reduce the penetration of moisture and water vapor through the slab into the structure.
- Helps reduce fungus, mildew and mold.
- Helps reduce radon gas from entering a structure.
- 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.
- 12-foot (15 mil) and 15-foot (10 mil) wide rolls require fewer seams in application.
- Helps meet and maintain the maximum slab moisture transfer rate of 3 lbs./1000 sq. ft./24 hours, as allowed by the flooring industry’s specifications.

**PACKAGING**

10 mil: 15 ft. wide (4.57 m), 200 ft. long (60.96 m) or 54” wide (1.37 m), 400 ft. long (121.92 m) by special order only.
15 mil: 12 ft. wide (3.66 m), 200 ft. long (60.96 m)

**PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>WATER VAPOR PERMEANCE RATING</th>
<th>TENSILE STRENGTH</th>
<th>PUNCTURE RESISTANCE</th>
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<tr>
<td></td>
<td>ASTM F 1249</td>
<td>ASTM E 96, Water Method</td>
<td>ASTM D 1709, Method B</td>
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<tr>
<td></td>
<td>Perms</td>
<td>WVT* Grains/Sq. Ft./Hr.</td>
<td>Lbs. Force/Inch</td>
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<tr>
<td>PERMINATOR 10 MIL</td>
<td>0.024</td>
<td>0.012</td>
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<tr>
<td>PERMINATOR 15 MIL</td>
<td>0.018</td>
<td>0.007</td>
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* Tested by ASTM F 1249, calibrated to ASTM E 96, Water Method
**APPLICATION**

**Surface Preparation**...Level, tamp or roll earth or granular material beneath the slab base as specified by supplied architectural drawings. Follow ASTM E-1643-94. (Standard practice and procedure for installation of vapor retarder used in contact with earth or fill under concrete slabs.)

**Horizontal Application**...Unroll 200-foot (61 m) 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 lateral and butt, should be overlapped 6” and taped using 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 on Page 2.) 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, blockouts and damaged areas are repaired/addressed.

**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 12”. The length should be 1 1/2 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 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 vapor retarder. 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’s guidelines, prior to application.

Vertical Wall Application … Install MEL-ROL waterproofing membrane or MEADOW-PRUF® SEAMLESS liquid 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.

ACCESSORIES
MEL-DRAIN® rolled matrix drainage system is designed to remove moisture from around footings and relieve hydrostatic head pressures. Eight versions are available.

PERMINATOR TAPE is a self-adhesive tape for use in sealing vapor retarder seams and attachment to footings, protrusions, etc. It is offered in 4” (10 cm) widths and roll lengths of 180’ (55 m)/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 10’ (3 m) lengths to attach PERMINATOR to vertical walls as a protection course for vertical wall waterproofing applications.

PRECAUTIONS
PERMINATOR underslab vapor mat 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 Material Safety Data Sheet for complete health and safety information.

This material last updated November, 2006
LIMITED WARRANTY

“W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order.” Read complete warranty. Copy furnished upon request.

Disclaimer

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