DESCRIPTION

PREMOULDED MEMBRANE VAPOR SEAL WITH PLASMATIC CORE (PMPC) is a patented seven-ply, weather-coated, permanently bonded, semi-flexible vaporproofing/waterproofing membrane. It is composed of an exclusive PLASMATIC CORE suspended mid-point between two layers of a homogeneous, bituminous material, and then sealed under heat and pressure between liners of asphalt-impregnated felt and a glass-mat liner. An asphalt weather coat is applied to the glass-mat liner and covered with a polyethylene anti-stick sheet.

PMPC provides a positive, easy-to-install, economical, true vaporproofing and waterproofing system for horizontal applications. Properly applied, it stops moisture migration in footings, concrete floors, and structural slabs. PREMOULDED MEMBRANE VAPOR SEAL WITH PLASMATIC CORE is both waterproof and vaporproof.

It offers a perm rating of less than 0.002 perms, the lowest in the industry. The product is the ultimate when a true vapor seal is required. Among its unique features is the built-in protection course, which resists jobsite puncturing and the abrasive action of concrete placement. PMPC conforms to ASTM E1993-08. The exclusive PLASMATIC CORE adds flexibility, greater tensile strength, and excellent handling characteristics, in addition to providing unequalled vapor barrier properties. PMPC helps meet and maintain the maximum slab moisture transfer rate of 3 lb./1000 ft²/24 hours (1.45 kg/100 m²/24 hours), as allowed by the flooring industry’s specifications.

Representative United States patent: USPN 7,179,761. (See also www.wrmeadows.com/patents for further patent/intellectual property information.)

FEATURES/BENEFITS

- Offers a virtually impermeable vaporproofing system with a perm rating of less than 0.002 perms, the lowest in the industry.
- As the only true vapor barrier for horizontal applications, it is both waterproof and vaporproof.
- Provides excellent tensile strength and puncture resistance.
- Helps prevent warping, buckling, or delamination of subsequent flooring systems.
- Conforms to ASTM E1993-08 specification.
- Greatly reduces fungus, mildew, and mold.
- Greatly reduces radon gas from entering the structure.
- Helps meet and maintain the maximum slab moisture transfer rate of 3 lb./1000 ft²/24 hours (1.45 kg/100 m²/24 hours), as allowed by the flooring industry’s specifications.

SPECIFICATIONS

ASTM E1993 (2008)*
*Standard Specification for Bituminous Water Vapor Retarders used in Contact with Soil or Granular Fill under Concrete Slabs.

PACKAGING

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>48&quot;</td>
<td>8&quot;</td>
<td>60 lb./100 ft²</td>
</tr>
<tr>
<td>(1.22 m)</td>
<td>(2.44 m)</td>
<td>(27.22 kg)</td>
</tr>
</tbody>
</table>

STORAGE

Handling of PMPC is not critical because of its strength; however, it is advisable to stack sheets on smooth ground or a wood platform in storage or at the excavation site. This will eliminate the possibility of the material deforming or warping.

CONTINUED ON REVERSE SIDE …
TECHNICAL DATA

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>WATER VAPOR PERMEANCE RATING</th>
<th>TENSILE STRENGTH</th>
<th>PUNCTURE RESISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ASTM F1249</td>
<td>ASTM E154, Section 9</td>
<td>ASTM E154</td>
</tr>
<tr>
<td>PREMOULDED MEMBRANE VAPOR SEAL WITH PLASMATIC CORE</td>
<td>0.0011</td>
<td>156</td>
<td>149</td>
</tr>
</tbody>
</table>
Application Method (Butt-Joint Method) …
After the sheets are tightly butted together, remove the polyfilm from the joint area. After removal of the polyfilm, center the PMPC TAPE over the butt joints and roll down with pressure for a positive seal.

Sealing Procedures … All protrusions through the concrete slab, such as sewer pipes, water pipes, and utility inlets, must have a positive seal between the protrusion and PMPC. Place a collar of PMPC at least 12” (31 cm) larger than the protrusion around the protrusion. Seal in place with PMPC TAPE and point around the protrusion with POINTING MASTIC.

ACCESSORIES
MEL-PRIME™ … Joints in concrete surfaces should be addressed with MEL-PRIME. MEL-PRIME is available in solvent-, water-based, and Northeast formulations. Packaging: 1 Gallon (3.79 L) Units, 5 Gallon (18.9 L) Pails

POINTING MASTIC … Used for sealing top horizontal terminations or slab protrusions. Packaging: 5 gallon (18.93 L) pails or 29 oz. (857.65 ml) cartridges.

PMPC TAPE … A sturdy, self-adhering, reinforced tape of polymeric membrane that requires no additional adhesive. Tape is also made using the patented core material giving it superior WVT properties. Provides a simple, easy, and economical method of effectively sealing horizontal and vertical butt joints. Each strip is nominally 6” (152.4 mm) wide and 50’ (15.24 m) long. Has quick-strip release paper for ease of handling and application. Packaging: 6 rolls per carton.

<table>
<thead>
<tr>
<th>Adhesive</th>
<th>JOINT METHOD</th>
<th>Per MSF of Membrane (Approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot-Mop Asphalt*</td>
<td>Complete</td>
<td>400 - 500 lb. (180 - 230 kg)</td>
</tr>
<tr>
<td>PMPC TAPE**</td>
<td>Butt-Joints/Overlap</td>
<td>416 linear ft. (126.8 m)</td>
</tr>
<tr>
<td>POINTING MASTIC***</td>
<td>Detail Strip, Edge Terminations</td>
<td>2000 lineal ft./gal. (161.0 m/L)</td>
</tr>
</tbody>
</table>

*Based on minimum of 1/16” (1.59 mm) film thickness
**Water Vapor Perm Rating is .0011
***1/8” x 1” x 200 lineal feet (3.18 mm x 25.4 mm x 60.96 m)
PRECAUTIONS
PMPC 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. If applied to concrete surfaces, repair any spalled areas, fill all voids and remove sharp protrusions.

Adhesive coverage ratios must be adjusted to compensate for surface irregularities and additional coats may be required to provide proper adhesion. For maximum concrete performance and durability, the floor slab concrete design should provide for the lowest possible slump and yet assure complete hydration of the concrete. Refer to Safety Data Sheet for complete health and safety information.

LEED INFORMATION
May help contribute to LEED credits:
- LTc2: Sensitive Land Protection
- EAp2: Minimum Energy Performance
- EAc2: Optimize Energy Performance
- MRc9: Construction and Demolition Waste Management
- EQc2: Low-Emitting Materials [For Healthcare and Schools (exterior-applied products) ONLY]

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

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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