

TECHNICAL DATA **

PRODUCT	***WATER VAPOR PERMEANCE RATING	TENSILE STRENGTH ASTM E 154, Section 9	PUNCTURE RESISTANCE ASTM E 154
	PERMS	LB. FORCE/INCH	LB. FORCE
PREMOULDED MEMBRANE VAPOR SEAL WITH PLASMATIC CORE	0.0011	156	149

**All technical data is typical information, but may vary due to testing methods, conditions, and operators.

***Tested by ASTM F 1249, calibrated to ASTM E-96, Water Method.

THE ULTIMATE VAPOR BARRIER TO ELIMINATE COSTLY MOISTURE DAMAGE

Over 80% of moisture entering a structure originates in the site. It moves from the grade into the structure both as a liquid (capillary) and as a gas (vapor). The only effective way to eliminate the costly problems of excessive moisture migration is to completely isolate the structure from the site during original construction with the installation of a true vapor seal membrane that is both waterproof and vaporproof. Material that is vaporproof is completely waterproof; however, not everything that is waterproof is vaporproof. **PREMOULDED MEMBRANE VAPOR SEAL WITH PLASMATIC CORE** is both waterproof and vaporproof.

While tremendously strong, even the best concrete is porous. Uncontrolled vapor will move through it, causing dank musty smells, rust, and condensation, damage to mechanical equipment, cracked plaster, chipped paint, efflorescence, warped floors, etc. The installation of a true vapor seal under the concrete floor slabs will stop moisture migration.

A true vapor seal must also be durable and tough enough to withstand normal handling, foot traffic, aggregate impact, and backfill abrasion. One tear or a few pinholes will destroy the entire purpose of the installation. Plastic films, laminated film, paper combinations, reinforced building papers, and saturated roofing felts are semi-permeable at best, and will permit the passage of air (vapor) through them. Additional information on the hydrologic cycle may be found in the W. R. MEADOWS moisture migration catalog (available upon request).

PMPC offers the construction industry a positive, easy to install, economical, true vaporproofing system solution.

MAINTAIN ENERGY EFFICIENCY

Wet insulating materials lose much of their R factor performance characteristics, reducing the energy efficiency of the structure. W. R. MEADOWS thermal and moisture protection products play a key role in *maintaining* the structure's energy efficiency and aiding in the integrity of other structural systems, such as insulation.

APPLICATION

Estimating ... When estimating the amount of PMPC required, figure the actual area plus 20% for overlap when using sheets. For rolls, figure actual areas, plus 12% for overlap.

Cutting ... PMPC can be cut with a roofer's or linoleum knife, using a straight edge.

Bending ... Normally to facilitate bending at a change in plane, such as at corners or footings, a 2" x 4" can be used to make the bend. In cold weather conditions, lightly heat the bending area and make the bend.

Pointing ... Pointing with POINTING MASTIC from W. R. MEADOWS should be done wherever an edge is exposed to prevent water from traveling under a sheet.

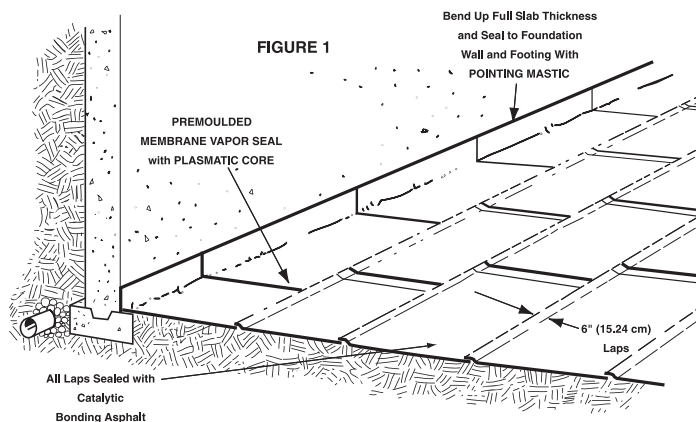
Horizontal Installation (On- or Below-Grade)

... By installing PMPC on the ground prior to placing the concrete floor, moisture will be prevented from coming through the floor slab. For sub-grade preparation prior to placement of PMPC, please see ACI 302.1R.17.

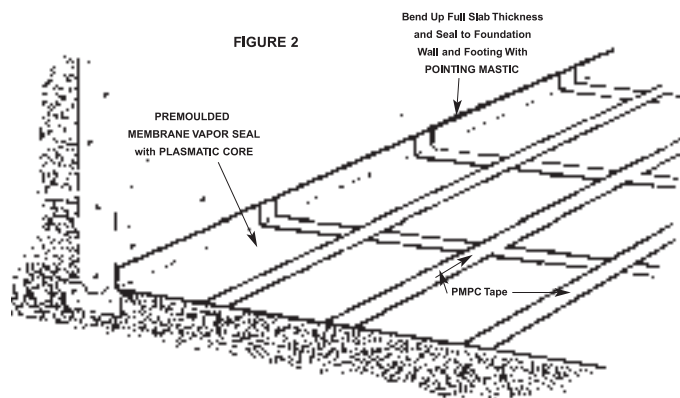
Above-Grade ... In addition to the horizontal on- or below-grade application, PMPC can be placed on the intermediate structural slab, forming a "sandwich slab" installation. As a result, moisture is prevented from filtering downward from mechanical floors dedicated to heating and air conditioning equipment. This helps prevent damage to lower floor levels.

COVERAGE		
Adhesive	JOINT METHOD	Per MSF of Membrane (Approx.)
CATALYTIC BONDING ASPHALT*	Sheets: 6" (152.4 mm) laps	5 gal. (18.93 liters)
	Rolls: 6" (152.4 mm) laps	3 gal. (11.36 liters)
Hot-Mop Asphalt*	Complete	400-500 lb. (180-230 kg)
PMPC TAPE**	Butt-Joints/Overlap	416 linear ft. (126.8 meters)
POINTING MASTIC***	Detail Strip, Edge Terminations	2000 lineal ft./gal. (161.0 m/L)
*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)		

THE "DUTCH LAP" METHOD
 (Figure 1): The "Dutch Lap" method of applying PMPC on on- or below-grade horizontal areas. After removing the polyfilm at the 6" overlap areas, seal all laps with CATALYTIC BONDING ASPHALT. Pressure roll or "walk-in" all laps to assure complete adhesion.



THE "BUTT-JOINT" METHOD
 (Figure 2): The Butt-Joint method of applying PMPC. 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 the PREMOULDED MEMBRANE. 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.

