

# GUIDE SPECIFICATION FOR PREMOULDED MEMBRANE® VAPOR SEAL WITH PLASMATIC CORE

## SECTION 07 26 16

### Below Grade Vapor Retarders

Specifier Notes: This guide specification is written according to the Construction Specifications Institute (CSI) Format. The section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project. Coordinate this section with other specification sections and the drawings.

Specifier Notes: W.R. Meadows Premoulded Membrane® Vapor Seal with Plasmatic Core is a seven-ply, weather-coated, permanently bonded, semi-flexible bituminous core board. PMPC provided 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. PMPC is both vaporproof and waterproof.

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Application of underslab vaporproofing/waterproofing membrane in horizontal applications.

#### 1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 03 30 00 - Concrete.
- .2 Section 07 10 00 – Dampproofing and Waterproofing.
- .3 Section 09 64 00 - Wood Flooring.
- .4 Section 09 65 00 - Resilient Flooring.

#### 1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM)
  - 1. ASTM E1993-98 - Standard Specification for Bituminous Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs.
  - 2. ASTM F1249 - Standard Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor
  - 3. ASTM E154 - Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs.
  - 4. ASTM E96 - Standard Test Methods for Water Vapor Transmission of Materials.
  - 5. ASTM E1643 - Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs.

#### 1.04 SUBMITTALS

- A. Comply with Section 01 33 00 - Submittal Procedures.
- B. Submit manufacturer's product data and application instructions.

## 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Store materials in a clean dry area in accordance with manufacturer's instructions.
- C. Stack membrane on smooth ground or wood platform to eliminate warping.
- D. Protect materials during handling and application to prevent damage or contamination.

## 1.06 ENVIRONMENTAL REQUIREMENTS

- A. Product not intended for uses subject to abuse or permanent exposure to the elements.
- B. Do not apply on frozen ground.

## PART 2 PRODUCTS

### 2.01 MANUFACTURER

- A. W.R. Meadows, Inc., PO Box 338, Hampshire, Illinois 60140-0338. (800) 342-5976. (847) 683-4500. Fax (847) 683-4544. Web Site [www.wrmeadows.com](http://www.wrmeadows.com).

### 2.02 MATERIALS

- A. Bituminous Vaporproofing / Waterproofing Membrane
  - 1. Performance Based Specification: Vapor Barrier must be seven-ply, weather-coated, permanently bonded, semi-flexible bituminous core board composed of a 3-ply plasmatic matrix sealed between liners of asphalt-impregnated felt and a glass mat liner. Vapor Barrier shall consist of an asphalt weather coat and covered with a polyethylene anti-stick sheet. Vapor Barrier shall meet or exceed all requirements of ASTM E 1993-98 and shall have the following characteristics:
    - a. Minimum Permeance ASTM F1249, calibrated to ASTM E96, Water Method: 0.0011 Perms
    - b. Tensile Strength ASTM E154, Section 9: 156 LBS. Force/Inch.
    - c. Puncture Resistance ASTM E154: 149 LBS. Force
  - 2. Proprietary Based Specification
    - a. Premoulded Membrane Vapor Seal with Plasmatic Core by W.R. Meadows.

### 2.03 ACCESSORIES

- A. Bonding Asphalt: Catalytic Bonding Asphalt or Hydralastic 836.
- B. Adhesive: Pointing Mastic.
- C. Joint Tape: PMPC Tape.
- D. Pointing Mastic: Pointing Mastic.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Examine surfaces to receive membrane. Notify Architect if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

### 3.02 SURFACE PREPARATION

- A. Prepare surfaces in accordance with manufacturers instructions.

### 3.03 APPLICATION

- A. Apply membrane in accordance with manufacturer's instructions to provide a permanent, monolithic vapor seal without voids or open seams.
- B. Ensure accessory materials are compatible with membrane and approved by membrane manufacturer.
- C. Place membrane in position by either Dutch lap method with laps sealed with bonding asphalt or by butt joint method with joints sealed with joint tape.
- D. Point exposed edges with pointing mastic to prevent water from traveling under membrane.
- E. Place membrane collar around protrusions through concrete slab, including sewer pipes, water pipes, and utility inlets to create a positive seal between protrusions and membrane. Seal in place with joint tape and point around protrusions with pointing mastic.
- F. Adhere membrane to vertical surfaces with adhesive.

### 3.04 PROTECTION

- A. Protect membrane from damage until placement of concrete.

END OF SECTION