



MasterFormat: 07 13 00

DECEMBER 2023

PRECON® PLUS

Pre-Applied/Underslab Waterproofing Membrane

DESCRIPTION

PRECON PLUS is a composite sheet membrane comprised of a polyolefin film, elastomeric membrane, and W. R. MEADOWS' exclusive, patented PLASMATIC® CORE (U.S. Patent No. 7,179,761). The PLASMATIC CORE is a seven-layer matrix designed for toughness and provides the lowest water vapor transmission (WVT) rating on the market. Once concrete is poured against PRECON PLUS and the concrete cures, a mechanical bond forms that secures the concrete to the membrane.

USES

PRECON PLUS is used as a blindside membrane in vertical applications where access to the positive side is limited. The membrane can also be used for horizontal applications for underslab waterproofing and vaporproofing.

FEATURES/BENEFITS

- Provides a waterproof seal between the membrane and poured concrete wall.
- Helps prevent moisture migration into the structure.
- Prevents lateral water migration.
- Reduces methane and radon gas intrusion.

PACKAGING

4' (1.2 m) wide x 50' (15.2 m) long rolls, one roll per carton.

STORAGE AND HANDLING

Store membrane cartons on pallets and cover if left outside. Keep materials away from sparks and flames.

APPLICATION

Surface Preparation ... Inspect all surfaces for any conditions detrimental to the proper completion of the work. Surfaces should be structurally sound. Remove debris or any other foreign material that could damage the membrane.

PRECON PLUS can be used with a caisson wall shoring system without the use of a drainage board, such as MEL-DRAIN™ from W. R. MEADOWS. W. R. MEADOWS recommends proper site drainage, but due to certain site conditions this sometimes cannot be done effectively. The decision to remove the drainage board should be at the discretion of the engineer. In situations where a drainage board is not applied, surface preparation is important. The substrate needs to be sound, solid, and smooth. Any gaps or voids >1" (25 mm) need to be grouted. When PRECON PLUS is used with MEL-DRAIN from W. R. MEADOWS, the system can bridge gaps <2" (50.8 mm). However, gaps >2" (50.8 mm) will need to be grouted.

Application Method ... PRECON PLUS may be applied at temperatures down to 40° F (5° C); however, in less-than-ideal environments or marginal conditions, consider the use of PRECON PLUS LOW TEMP, which can be used in temperatures down to 25° F (-4° C). MEL-PRIME™ from W. R. MEADOWS should be used to enhance the bond at the seldedge edge when conditions warrant with both PRECON PLUS and PRECON PLUS LOW TEMP. Prior to application of the blindside membrane, attach MEL-DRAIN™ rolled matrix drainage system from W. R. MEADOWS to lagging or soil retention system.

In vertical applications of PRECON PLUS, mechanically attach with fasteners or TERMINATION BAR every 12" (304.8 mm) across the top, within ½" (13 mm) of the top edge of the membrane. Install the membrane with the green polyolefin side facing toward the concrete pour.

Remove release paper on 6" (152.4 mm) overlap. Apply membrane and roll press into place with a tile type roller.

If shotcrete is to be applied to the membrane, please reference PRECON SHOTCRETE TECHNICAL BULLETIN available at www.wrmeadows.com.

For full installation information, including substrate preparation, detailing, and repair, refer to PRECON PLUS INSTALLATION GUIDELINE document.

CONTINUED ON REVERSE SIDE ...

W. R. MEADOWS, INC.

P.O. Box 338 • HAMPSHIRE, IL 60140-0338
Phone: 847/214-2100 • Fax: 847/683-4544
1-800-342-5976
www.wrmeadows.com • info@wrmeadows.com

HAMPSHIRE, IL / CARTERSVILLE, GA / YORK, PA
FORT WORTH, TX / BENICIA, CA / POMONA, CA
GOODYEAR, AZ / MILTON, ON / SHERWOOD PARK, AB

End Laps ... Apply a 6" (152.4 mm) band of HYDRALASTIC 836 onto the membrane and overlap the subsequent membrane and press into place. Following this, apply PRECON PLUS TAPE [12" (304.8 mm)] from W. R. MEADOWS for both horizontal and vertical end laps, centered over the overlap and roll press into place. Apply a bead of HYDRALASTIC 836 on the terminations of PRECON PLUS TAPE. View PRECON END LAP TAPING METHOD TECHNICAL BULLETIN available at www.wrmeadows.com for full information.

Penetrations and Protrusions ... Ensure that surfaces are clean and sound. Penetrations less than ¼" (6.4 mm) should be sealed with HYDRALASTIC 836. Penetrations larger than ¼" (6.4 mm) should be addressed with PRECON PLUS TAPE. See PRECON PLUS INSTALLATION GUIDELINE document for full information.

Patching ... Prior to pouring, inspect membrane for punctures or damage and repair as necessary with PRECON PLUS TAPE and HYDRALASTIC 836. In addition, ensure the membrane is free of standing water and has been cleaned of any deleterious materials that will affect the bond of the concrete to the membrane.

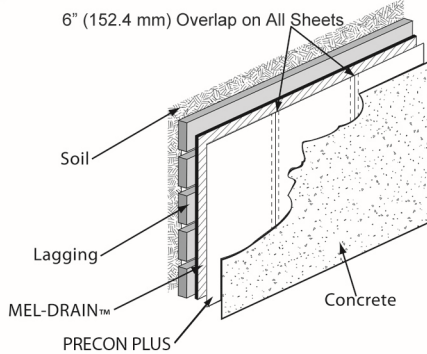
Underslab Application ... Refer to ACI 302.1R-04: Chapter 4 – Site Preparation and Placing Environment for sub-grade preparation prior to PRECON PLUS placement.

PRECAUTIONS

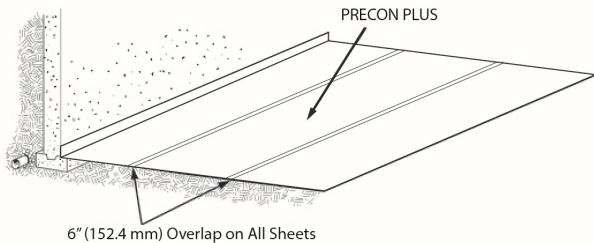
Concrete should be poured within 60 days of membrane installation. For installations below 40° F (4° C), contact W. R. MEADOWS technical services. When using bar supports, use those with a flat bottom.

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

**PRECON PLUS
BLINDSIDE/UNDERSLAB MEMBRANE**



**PRECON PLUS
OVERLAP ILLUSTRATION**



For horizontal applications involving a cluster of penetrations, consider the use of HYDRALASTIC 836. Prior to application of HYDRALASTIC 836, prepare the surfaces of the penetrations as above and provide a block out using 2' x 4' (.6 x 1.2 m) lumber or other in order to create a "pitch pan" area to receive HYDRALASTIC 836.

TECHNICAL DATA

Property	Test Method	PRECON PLUS Results
Thickness	ASTM D1000	73 mil (1.85 mm)
Low Temp Flexibility	ASTM D1970, 180° @ -20° F (-28.9° C)	Pass
Resistance to Hydrostatic Head	ASTM D5385-93	230' (70 m)
Resistance to Lateral Water Migration	ASTM D5385M-20	Pass @ 100 psi
Elongation, Polymeric Membrane	ASTM D412-06	> 400%
Tensile Strength, Film	ASTM D882	9200 psi (63.4 MPa)
Crack Cycling	ASTM C836 @ -15° F (-26° C)	Pass
Puncture Resistance	ASTM E154	> 210 lb. (> 934 N)
Peel Adhesion to Concrete	ASTM D903	14 lb./in (2450 N/m)
Lap Peel Adhesion	ASTM D1876	5.60 PLI
Water Vapor Transmission	ASTM E96, Procedure B (Water Method)	0.003 perms (0.171 ng/s•m ² •Pa)
Resistance to Fungi in Soil	GSA-PBS 07115 – 16 Weeks	No Effect
Radon Transmittance (m/s)	k124/02/95	<3.0 x 10 ⁻⁹
Radon Coefficient (m ² /s)	k124/02/95	<5.6 x 10 ⁻¹²



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

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.