



## DATA SHEET NO. 5118-350

### PRECON® LOW TEMP Pre-Applied/Underslab Waterproofing Membrane

#### DESCRIPTION

PRECON LOW TEMP is a composite sheet membrane comprised of a non-woven fabric, 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 vapour transmission (WVT) rating on the market. Once concrete is poured against PRECON LOW TEMP and the concrete cures, a mechanical bond forms that secures the concrete to the membrane.

#### USES

PRECON LOW TEMP 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 vapourproofing. This low temperature version can be installed in temperatures down to -4° C.

#### FEATURES/BENEFITS

- Provides a waterproof seal between the membrane and poured concrete wall.
- Helps prevent moisture migration into the structure.
- Acts as a barrier against termites.
- Reduces methane and radon gas intrusion.

#### PACKAGING

1.2 m (4') wide x 15.2 m (50') 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 LOW TEMP 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 >25 mm (1") need to be grouted. When PRECON LOW TEMP is used with MEL-DRAIN from W. R. MEADOWS, the system can bridge gaps 50.8 mm (<2"). However, gaps >50.8 mm (2") will need to be grouted.

**Application Method** ... PRECON LOW TEMP can be used in temperatures down to -4° C. MEL-PRIME™ from W. R. MEADOWS should be used to enhance the bond at the selvedge edge when conditions warrant with PRECON 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 LOW TEMP, mechanically attach with fasteners every 304.8 mm (12") across the top, within 13 mm (½") of the top edge of the membrane. Install the membrane with the fabric side facing toward the concrete pour.

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

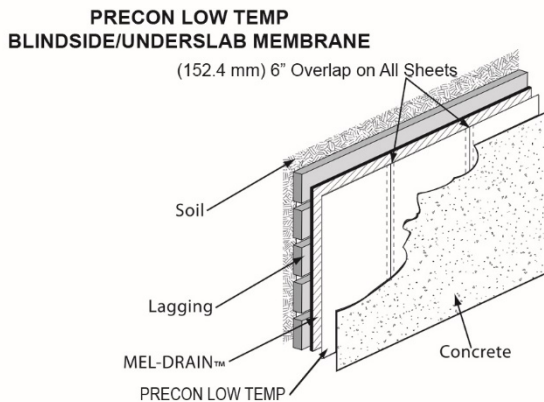
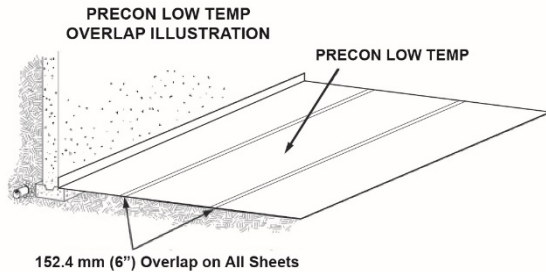
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**End Laps ...** For optimum performance, HYDRALASTIC 836 or MEL-ROL® LIQUID MEMBRANE (two-component) are to be used for all end lap details and terminations. For detailed information, see PRECON COLD WEATHER APPLICATION TECHNICAL BULLETIN available at [www.wrmeadows.com](http://www.wrmeadows.com).

**Penetrations and Protrusions ...** Detail around all horizontal and vertical penetrations using BEM or MEL-ROL LIQUID MEMBRANE (two-component) from W. R. MEADOWS. Apply BEM or MEL-ROL LIQUID MEMBRANE by forming a fillet around the pipe or protrusion, overlapping the fabric side of PRECON LOW TEMP and the protrusion a minimum of 64 mm (2.5"). If the gap between the protrusion and the membrane is greater than 13 mm (½"), apply PRECON FABRIC TAPE over uncured BEM or MEL-ROL LIQUID MEMBRANE. All penetration and protrusion surfaces must be clean, rust-free, and sound prior to application of BEM or MEL-ROL LIQUID MEMBRANE.

\*MEL-ROL LIQUID MEMBRANE is a two-component material, not to be confused with MEL-ROL LM.



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 .6 x 1.2 m (2' x 4') lumber or other in order to create a "pitch pan" area to receive HYDRALASTIC 836.

**Patching ...** Prior to pouring, inspect membrane for punctures or damage and repair as necessary with HYDRALASTIC 836 and/or DETAIL FABRIC. (BEM or MEL-ROL LIQUID MEMBRANE may be used in place of 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.17 for sub-grade preparation prior to PRECON placement.

#### PRECAUTIONS

Concrete should be poured within 60 days of membrane installation. When using bar supports, use those with a flat bottom. PRECON LOW TEMP should not experience temperatures above 49° C due to air and sunlight exposure prior to concrete being placed.

#### MASTERFORMAT NUMBER AND TITLE

07 13 00 – Sheet Waterproofing

#### LEED INFORMATION

May help contribute to LEED credits:

- EA Credit 1: Optimize Energy Performance
- EAp2: Minimum Energy Performance
- EAc2: Optimize Energy Performance
- MRc9: Construction and Demolition Waste Management

**For BIM assemblies, CAD details, most recent data sheet, further LEED information, and SDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).**

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**TECHNICAL DATA**

Property	Test Method	PRECON Results
Thickness	ASTMD 1000	1.85 mm (73 mil)
Low Temp Flexibility	ASTM D1970, 180° @ -32° C	Pass
Resistance to Hydrostatic Head	ASTM D5385-93	70 m (230')
Elongation, Polymeric Membrane	ASTM D412-06	>400%
Tensile Strength, Film	ASTM D882	63.4 MPa (9200 psi)
Crack Cycling	ASTM C836 @ -15° F	Pass
Puncture Resistance	ASTM E154	>934 N (>210 lb.)
Peel Adhesion to Concrete	ASTM D903	1754 N/m (10 lb./in)
Moisture Vapour Transmission	ASTM E96B	0.0011 perms (0.007 gram/m <sup>2</sup> /24 hr) (0.0004 grains/ft. <sup>2</sup> /hr)
Radon Transmittance (m/s)	k124/02/95	<3.0 x 10 <sup>-9</sup>
Radon Coefficient (m <sup>2</sup> /s)	k124/02/95	<5.6 x 10 <sup>-12</sup>



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