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(Supersedes November 2005)

MEL-ROL® LM (ALL SEASON)

Single-Component, Liquid-Applied, Polymer-Modified Waterproofing Membrane

DESCRIPTION

MEL-ROL LM (ALL SEASON) is a single-component, polymer-modified, cold-applied, liquid waterproofing membrane ideal for below-grade vertical seamless waterproofing applications. MEL-ROL LM (ALL SEASON) is formulated with the same high quality rubber polymers found in MEADOWS' successful MEL-ROL "peel and stick" membrane, converting them into a heavy-bodied, high solids, quick drying liquid membrane. The liquid-membrane technology allows faster installation times using either a spray or roller application.

USES

MEL-ROL LM (ALL SEASON) can be used on new and remedial waterproofing applications on both concrete and masonry block substrates.

FEATURES/BENEFITS

- Waterproof/Very low vapor permeability (perm rating).
- All weather application/Can be applied down to 10° F (-12° C).
- Superior elongation/Bridges minor cracks and will not become brittle with age.
- Excellent adhesion and bond/Water will not run beneath the membrane.
- Single component/Eliminates two-component mixing problems.
- Easy to apply/Apply with roller or airless sprayer.
- Low-cost application equipment. (See recommended spraying equipment section.)
- No heating/Eliminates fire hazards associated with heating kettles.
- Low VOC/Content is <400 g/L.

PACKAGING

5 Gallon (18.93 Liter) Pails
55 Gallon (208.20 Liter) Drums*
*Special order only

LEED INFORMATION

May help contribute to LEED credits:

- EA Credit 1: Optimize Energy Performance
- EQ Credit 3.1: Construction IAQ Management Plan: During Construction
- MR Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally
- MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally

APPLICATION

Surface Preparation ... All surfaces must be clean (free of all coatings and curing compounds), free of frost, relatively smooth, and structurally sound. Patch any bug holes, tie holes, large gaps, or cracks with MEADOW-PATCH® 5 or MEADOW-PATCH 20 from W. R. MEADOWS. All loose laitance, such as dirt, dust, loose stones, debris, etc., must be swept or blown clean from the substrate.

NOTE: Do not apply to "green" (fresh) concrete. Concrete must be cured a minimum of 14 days prior to application. Do not use with insulated concrete forms (ICFs). Polystyrene insulation boards may be used only after membrane has thoroughly cured a minimum of 72 hours, and there is no danger of residual solvent degrading the boards.

All shrinkage cracks less than 1/16" (0.16 cm) should be pretreated with a 60 mil (1.52 mm) wet coat of MEL-ROL LM (ALL SEASON) at 6" (15.24 cm) wide. All cracks greater than 1/16" (0.16 cm) should be pretreated with DETAIL STRIP from W. R. MEADOWS prior to application of the membrane.

PRIMING

To reduce blistering on concrete surfaces, a thin coat of MEL-ROL LM (ALL SEASON) may be required. Using a roller or sprayer, prime the entire concrete surface to be waterproofed, with a single coat, at a coverage rate of 100-150 ft.²/gal. Allow the primer to dry, which is approximately 1 - 2 hours, depending on jobsite conditions (temperature, humidity, air flow, etc.). As the primer is allowed to warm by exposure to sunlight, the surface of the concrete will de-gas, helping to eliminate problems with blistering of the membrane.

CONTINUED ON THE REVERSE SIDE...

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DETAILING

After surface preparations are finished, detailing should be completed. The recommended membrane thickness is 120 mils (3.04 mm) wet for inside and outside corners, non-moving cracks, and hairline cracks, as well as around drains and penetrations.

Roller Application ... MEL-ROL LM (ALL SEASON) can be applied directly from the container using a $\frac{3}{4}$ " nap roller. Apply in multiple coats, each at a 40 mils (1.02 mm) wet thickness. Allow the previous coat to reach initial set prior to application of the next coat, which is approximately one (1) hour, depending on jobsite conditions (temperature, humidity, airflow, etc.).

Sprayer Application ... NOTE: MEL-ROL LM (ALL SEASON) MUST BE A MINIMUM OF 60° F (15° C) WHEN SPRAYING. Material will become very thick and difficult to spray at lower temperatures. MEL-ROL LM (ALL SEASON) must be stored in a heated trailer and/or passed through a heat exchanger for successful spraying.

Equipment ... MEL-ROL LM (ALL SEASON) is most effectively and efficiently applied by using either the Graco HydraMax 350 or the Graco GH833 Big Rig sprayer.

The Graco heavy-duty texture gun, with the 0.035" (Graco GHD535) heavy-duty switch tip, is recommended for the best results.

For detailed information on the recommended spray equipment, use, and cleanup, please refer to the W. R. MEADOWS sprayer equipment guide available on the building envelope page of www.wrmeadows.com and the softbound catalog.

MEL-ROL LM (ALL SEASON) can be sprayed on vertical surfaces at a minimum coverage thickness of 80 mils (2.03 mm) wet [45 mils (1.14 mm) dry]. The recommended coating thickness can be achieved in a single coat; however, if product slumps due to temperature or substrate conditions, two coats [each at 40 mils (1.02 mm) wet] may be necessary. Apply the second coat after the first coat has dried, which is approximately one (1) hour, depending on jobsite conditions (temperature, humidity, airflow, etc.).

Thickness Control ... Frequently inspect surface with a wet mil gauge to ensure the recommended thickness is achieved, and that the thickness is consistent. Porous substrates or masonry block walls may require additional coats to obtain the recommended thickness.

COVERAGE

Approximately 17-20 ft.²/gal. at 80 mils (2.03 mm) wet [45 mils (1.14 mm) dry]. Coverage depends on substrate type, weather, and application conditions.

CLEANUP

Material should not be left in the pump, lines, or gun when finished spraying. Aromatic solvents such as xylene and toluene should be flushed through the sprayer until the pump and hose run clear.

CAUTION: A final flush of the spraying equipment, with water, must be completed to remove any traces of solvent prior to spraying a water-based product. The presence of any residual solvent will cause the water-based product to solidify and clog the pump and hose.

PROTECTION

Allow membrane to cure a minimum of 48 hours prior to application of a protection course. Membrane should be covered within 30 days after application. Cover with PROTECTION COURSE, MEL-DRAIN™ or 10 mil PERMINATOR® from W. R. MEADOWS. A primer coat of POINTING MASTIC from W. R. MEADOWS can be used to secure the protection to the wall.

NOTE: Polystyrene insulation boards can be applied only if the membrane has thoroughly cured a minimum of 72 hours and all traces of residual solvent have evaporated. Failure to allow the 72-hour cure time, and complete solvent evaporation, may degrade the boards.

BACKFILLING

Allow membrane to cure 48 hours prior to backfilling.

SHELF LIFE (TYPICAL)

Twelve (12) months in original, unopened container. Store at 40-90° F (4-32° C).

PRECAUTIONS

For exterior use only. Use with adequate ventilation. Do not apply MEL-ROL LM (ALL SEASON) if rainfall is forecast or imminent within two hours of application. Do not apply to ICFs. Sprayed urethane foams should not be applied over MEL-ROL LM (ALL SEASON). These foams can melt the membrane and cause delamination and failure due to the exothermic reaction that takes place after application. A complete drain tile system should be placed around the exterior of footing and under slabs, as required. The use of MEL-ROL LM (ALL SEASON) does not negate the need for relief of hydrostatic heads.

HEALTH AND SAFETY

FOR EXTERIOR USE ONLY. AVOID IGNITION SOURCES. AVOID PROLONGED BREATHING OF VAPORS. Use proper personal protective equipment, including chemical resistant gloves and eye and respiratory protection. Keep out of reach of children. Do not swallow. Should adverse effects occur, remove subject from area immediately. Refer to Material Safety Data Sheet for complete health and safety information. Flash point is 103° F (39° C).

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

PHYSICAL PROPERTIES MEMBRANE

Color:	Black	
Solids, wt. %:	65	
Total Cure Time, hours:	48	
Application Temperature, °F, (°C) minimum:	10 (-12)	
Coverage, ft. ² /gal.	17-20	
Shore "00" Hardness:	Pass	ASTM C 836
Adhesion to Concrete:	Exceeds Requirements	ASTM C 836
Low Temp Flex & Crack Bridging:	Pass	ASTM C 836
Stability:	Exceeds Requirements	ASTM C 836
Tensile Strength, psi:	30	ASTM D 412
Elongation, %:	1000	ASTM D 412
Water Absorption @ 72 hours, %:	<0.5	ASTM D 1970
WVT, perms:	0.06	ASTM E 96, B



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.