

PRODUCT DATA

W. R. MEADOWS®

SEALTIGHT®

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MEL-ROL® LM

Single Component, Water-Based, Polymer-Modified, Cold-Applied,
Waterproofing Membrane

DESCRIPTION

MEL-ROL LM is a single-component, polymer-modified, cold-applied, water-base, liquid waterproofing membrane ideal for below-grade vertical seamless waterproofing applications. We have taken the same high quality rubber polymers found in MEADOWS' successful MEL-ROL "peel and stick" membrane, and converted them into a heavy-bodied, high solids, quick drying liquid membrane.

With MEL-ROL LM, installation time is reduced, utilizing either a spray or roller application. A variety of different protection courses, insulation boards or drainage boards can be imbedded into the membrane to create a superior waterproofing system. With the application of PERMINATOR® vapor mat over the membrane, a composite system can be created that has the combined advantages of both "peel and stick" and fluid-applied membranes.

USES

MEL-ROL LM can be used on new and remedial waterproofing applications on concrete or masonry block substrates. Since the formula is water-based, MEL-ROL LM can also be used on both ICFs and "green concrete" applications.

FEATURES/BENEFITS

- Waterproof – very low vapor permeability (perm rating).
- Superior elongation – bridges minor cracks; will not become brittle with age.
- Fully bonded – water will not run beneath the membrane.
- High solids, single-component, fast drying formulation – easy to apply; low cost application equipment; eliminates two-component mixing problems.
- Cold-applied/Water-based – will not adversely affect insulated forms (ICFs) or various protection board options. Allows for application to damp or "green concrete."
- VOC content is 0.0 g/L. Produces no noxious odors.
- Easy application – no heating necessary. Eliminates fire hazards associated with heating kettles. Apply with roller or airless sprayer.

PACKAGING

5 Gallon (18.93 liter) Pails

55 Gallon (208.20 liter) Drums*

*special order only

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WEBSITE: www.wrmeadows.com**

CONTINUED ON REVERSE SIDE...

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SURFACE PREPARATION

All surfaces must be clean (free of coatings), 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 on the substrates, such as dirt, dust, loose stones and debris, should be either swept or blown clean.

All shrinkage cracks less than 1/16" should be pre-treated with a 60-mil coat of MEL-ROL LM 6" (15 cm) wide. All cracks greater than 1/16" should be pre-treated with W. R. MEADOWS DETAIL STRIP prior to application of the membrane. For specific project recommendations, please contact W. R. MEADOWS technical services.

MIXING

MEL-ROL LM is designed to be used from the pail or drum with little or no mixing. However, if water appears on the surface of the unit, thoroughly mix with a low speed mechanical mixer prior to application.

PRIMING

To reduce blistering on concrete surfaces, a thin coat of MEL-ROL LM diluted with water may be required. (Approximate dilution ratio of MEL-ROL LM to water is 4:1.)

Thoroughly mechanically mix primer. Prime the entire concrete surface to be waterproofed by spraying or rolling on a single coat at a coverage rate of 100-150 sq. ft./gal. Allow primer to dry (approximately one hour, depending on climatic conditions).

DETAILING

After surface preparations are complete, detailing should be addressed. The desired thickness of membrane coverage is 120 mils for inside/outside corners and non-moving and hairline cracks, as well as around drains and penetrations.

ROLLER APPLICATION

MEL-ROL LM can be applied directly from the container using a 3/4" nap roller. Apply in two coats, each 30 mils thick, allowing first coat to reach initial set prior to application of second coat.

SPRAYING APPLICATION

MEL-ROL LM may be sprayed on vertical surfaces at the minimum coverage thickness of 60 mils wet (45 mils dry). A single coat may achieve desired coating thickness. However, if material slumps due to temperature or substrate conditions, two coats (30 mils wet) may be necessary. Apply the second coat after the first coat has dried (approximately one to two hours).

HORIZONTAL APPLICATION

Contact your local W. R. MEADOWS sales office for specific recommendations.

Approximate Coverage ...

20-25 sq. ft./gal. @ 60 mils

THICKNESS CONTROL

Frequently inspect surface area with a wet mil gauge to ensure desired consistent thickness is achieved. Porous substrates or masonry block walls may require additional coats to obtain desired thickness.

SPRAYING EQUIPMENT

MEL-ROL LM is most effectively applied by using the Graco HydraMax 350 or the Graco GH833 Big Rig.

The Graco heavy-duty texture gun is recommended for use with the following tips. For best results, use the 0.051" (Graco GHD551) heavy-duty switch tip. For spraying of primer coat, a smaller orifice tip such as the 0.035" (Graco GHD635) can be used. Tips should be reversible types for easy clean out.

CLEAN UP

Material should not be left in the pump, lines or gun when finished spraying. After spraying, promptly flush water through the system until pump and hose are clear (approx. five gallons). Aromatic solvents, such as xylene or toluene (approx. two gallons), should be used for final flushing after water is flushed through the pump and lines.

Mineral spirits, paint thinner, gasoline, etc., must not be used to flush system. **NOTE: Water must be flushed through the machine to remove any solvents prior to spraying of MEL-ROL LM.**

PROTECTION

Cover vertical applications with PROTECTION COURSE, MEL-DRAIN™ or 10 mil PERMINATOR (available in 54" wide x 400 ft. long size) from W. R. MEADOWS. On vertical surfaces, coverings can be imbedded into the membrane shortly after application.

BACKFILLING

Allow 24 hours for complete cure of membrane prior to backfilling.

SHELF LIFE

Six months in unopened container. Do not store in temperatures over 90° F or below 40° F.

CAUTION

Do not freeze. Do not apply MEL-ROL LM on vertical projects if rainfall is forecast or imminent within 2-4 hours. Do not apply MEL-ROL LM on horizontal projects if rainfall is forecast or imminent within 24 hours. Do not apply MEL-ROL LM or primer when air, material and surface temperatures are expected to fall below 30° F within four hours of completed application.

PHYSICAL PROPERTIES

MEMBRANE

Color	Black	
Solids	70%	
Total Cure Time	16-24 hrs	
Application Temp	30° F Minimum	
Coverage	20-25 sq. ft./gal.	
Shore "00" Hardness	Passes	ASTM C-836
Adhesion to Concrete	Exceeds	ASTM C-836
Low Temp Flex & Crack Bridging	Passes	ASTM C-836
Stability	Exceeds	ASTM C-836
Elongation	1500%	ASTM D-412
Water Absorption	0.7%	ASTM D-1970
WVT	0.03 Perms	ASTM E-96, B

Composite (55 Mil Membrane/10 Mil PERMINATOR)

Peel Adhesion	7 lb./in. (125 g/mm)	ASTM C-794
Tensile Strength (Film)	5000 PSI (36 Mpa)	ASTM D-412 (Die C)
Elongation	900%	ASTM D-412 (Die C)
Water Vapor Permeability	0.02 Perms	ASTM E-96, B
Water Absorption	0.1%	ASTM D-1970
Resistance to Hydrostatic Head	48 PSI	ASTM D-751
Puncture Resistance	22 lbf. (98 N)	ASTM D-4833



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

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