

MEL-ROL® XLT

Rolled, Self-Adhering, Extra-Low Temperature Waterproofing Membrane

DESCRIPTION

MEL-ROL XLT is a flexible, versatile, dependable, roll-type waterproofing membrane ideal for application in extra-low temperatures down to 0° F (-18° C). It is composed of a nominally 56 mil thick layer of polymeric waterproofing membrane on a heavy-duty, four-mil thick, cross-laminated polyethylene carrier film. The two components are laminated together under strict quality-controlled production procedures.

A handy overlap guideline is printed 2.5" (63.5 mm) in from the material edge on each side to assure proper overlap coverage and to assist in maintaining a straight application. Special, exposed polymeric membrane strips are provided on both sides for positive membrane-to-membrane adhesion in the overlap area. The membrane strips are protected by a pull-off release strip. All components of the MEL-ROL waterproofing system work together to provide a cost-effective, positive waterproofing system that's quick and easy to apply. W. R. MEADOWS accessory products included in the MEL-ROL waterproofing system are: MEL-ROL LIQUID MEMBRANE, MEL-PRIME™ adhesive, MEL-PRIME W/B, POINTING MASTIC, DETAIL STRIP, CATALYTIC BONDING ASPHALT, TERMINATION BAR, PROTECTION COURSE, and MEL-DRAIN™ drainage board.

USES

MEL-ROL XLT provides a cost-effective answer to properly waterproof foundations, vertical walls, and below-grade floors in residential and commercial construction. It is equally effective for use as between-slab waterproofing on plaza decks, parking decks, and structural slabs. Use it as a waterproofing membrane to isolate mechanical and electronic rooms, laboratories, kitchens, and bathrooms. MEL-ROL XLT offers positive protection when "wrapped around" major rapid transit, vehicular, utility, and pedestrian tunnel projects. MEL-ROL XLT can also be used on insulated concrete forms (ICF).

Installation of PROTECTION COURSE from W. R. MEADOWS is recommended before backfilling. It can also be used with drainage boards when specified.

FEATURES/BENEFITS

- Superior adhesion, even down to 0° F (-18° C)
- Offers a quick and easy-to-apply system for maximum productivity.
- Special membrane-to-membrane adhesion provides additional overlap security.
- Meets or exceeds the test requirements of all currently applicable specifications.
- Components work together for positive waterproofing protection.
- Handles with ease on the jobsite.
- The product will help meet and maintain the maximum slab moisture transfer rate of 3 lb./1000 sq. ft./24 hours required by the flooring industry's specifications.
- MEL-ROL XLT is available in two other grades, dependant on application temperature: standard MEL-ROL and MEL-ROL LOW TEMP.

PACKAGING

38.5" (.98 m) wide x 60' (18.29 m) long; one roll per carton.

COVERAGE

Provides 180 sq. ft. (17.88 sq. m) per roll.

STORAGE AND HANDLING

Store membrane cartons on pallets and cover if left outside. Keep materials away from sparks and flames. Store where temperature will not exceed 90° F (32° C) for extended periods of time.

SPECIFICATIONS

AREMA® Specification: Chapter 8, Part 29 for Membrane Waterproofing

CONTINUED ON REVERSE SIDE...

MEL-ROL XLT COMBINES POSITIVE WATERPROOFING PROTECTION WITH EASE OF HANDLING

EXCLUSIVE FEATURES

A handy overlap guideline is printed 2.5" (63.5 mm) in from the material edge on each side, assuring proper overlap coverage and assisting in maintaining a straight application. The polymeric waterproofing membrane is protected by a special, easy-to-remove release paper. The exposed membrane strips on the material edges are protected by a pull-off release strip. Exposed polymeric membrane strips are provided on both sides of MEL-ROL XLT for positive membrane-to-membrane adhesion in the overlap area.

TECHNICAL DATA		
PROPERTY	TYPICAL VALUE	TEST METHOD
COLOR ... Carrier Film	White	
Polymeric Membrane	Black	
THICKNESS.....Carrier Film	4 mils	
Polymeric Membrane	56 mils	
TENSILE STRENGTH ...Carrier Film	5900 psi min. (40.71 MPa)	ASTM D 412 (Die C)
Polymeric Membrane	590 psi min. (4.07 MPa)	
ELONGATION ... Polymeric Membrane	455% min.	ASTM D 412 (Die C)
PERFORMANCE OF COMPOSITE MEMBRANE		
PEEL ADHESION Dry	7 lb./in. (125 g/mm)	Footnote 1
Wet	7 lb./in. (125 g/mm)	
LAP ADHESION Dry	5 lb./in. (90 g/mm)	
PLIABILITY 180° Bend, 1" (25.4 mm) Mandrel @ -25° F (-32° C)	Unaffected	ASTM D 146
WATER VAPOR PERMEABILITY	0.019 Perms	ASTM E-96, B
WATER ABSORPTION	0.1%, 72 hrs. max.	ASTM D 1970
RESISTANCE TO HYDROSTATIC HEAD	Equiv. to 240' (73.1 m) of water	Footnote 2
PUNCTURE RESISTANCE	67 lb. (2.98 kN)	ASTM E 154
EXPOSURE TO FUNGI	Pass, 16 weeks	Soil Test

1. 90% peel after 7 days at 70° F (21° C) plus 7 days at 120° F (49° C) plus 7 days at 70° F (21° C) (Dry) (Wet).
 2. Membrane placed over a porous base in a test cell and edges sealed. Water was placed over test specimen. Cell fastened and sealed and placed under 105 psi (.73 MPa) (approx. 240' (73.1 m) water head) pressure for 24 hours. Test specimen did not show any water to permeate the membrane.

MEL-ROL XLT IS QUICK AND EASY TO APPLY

APPLICATION

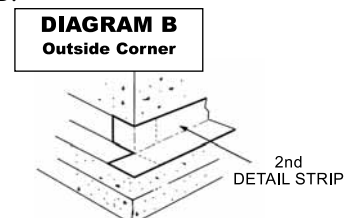
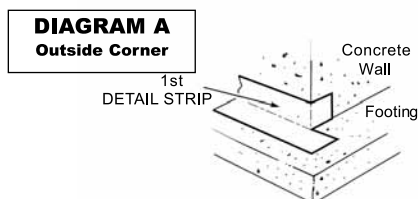
Surface Preparation ... Concrete should be cured at least 72 hours, be clean, dry, frost-free, smooth, and free of voids. Repair spalled areas; fill all voids and remove all sharp protrusions.

Temperature ... Apply in dry, fair weather when the air and surface temperatures are above 0° F (-18° C). Do not apply to frost covered concrete.

Surface Conditioning ... Apply MEL-PRIME adhesive or MEL-PRIME W/B to surfaces that will be covered within one working day. If left exposed overnight, additional adhesive must be applied. Follow all instructions and precautions on containers.

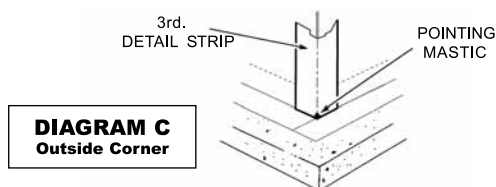
REMOVE release paper from MEL-ROL from the top edge of the roll and firmly press exposed area to the wall. Remove the release paper from the rolls in a downward direction, pressing MEL-ROL into place on the wall.

Footing Details ... Use DETAIL STRIP for impaction sheet coverage. First, fold strips lengthwise and then cut at the fold. Material is then ready to install as 4.5" (114.3 mm) strips on either side of the rebar. Any excess can be turned down on the face of the footing. Next, fill the voids around rebars in the keyway with CATALYTIC BONDING ASPHALT. Pour the walls. Install DETAIL STRIP horizontally along the wall where it meets the footing, placing half the material up the wall and the other half onto the footing. Extend the material 4.5" (114.3 mm) beyond outside corners. Slit extended portion of DETAIL STRIP lengthwise. Place the horizontal flap out onto the footing and bend the vertical flap around the wall. (See Diagram A.) Repeat this procedure in the opposite direction as shown in Diagram B.



Horizontal Application ... Position the MEL-ROL XLT membrane from low to high points, so all laps will shed water. Stagger end laps and overlap all seams at least 2.5" (63.5 mm). Apply a double-thickness of the MEL-ROL XLT membrane over construction, control and expansion joints, and over cracks greater than 1/16" (1.59 mm) wide.

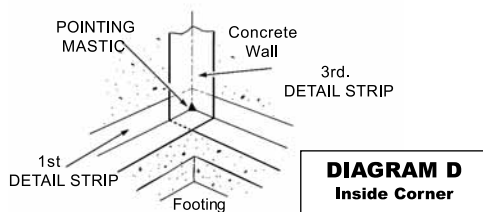
Vertical Wall Application ... Masonry walls must be parge-coated with a cementitious material before surface conditioning and applying MEL-ROL XLT. Apply vertically in lengths approximately 8' (2.44 m) long over the top of the horizontal DETAIL STRIP at the footing. Overlap seams at least 2.5" (63.5 mm). Tightly butt edges of membrane and apply POINTING MASTIC in corner applications. (See Diagram C.)



To the top terminations, apply POINTING MASTIC at least 1/8" (3.18 mm) thick and 1" (25.4 mm) wide. As an option, TERMINATION BAR may be used to mechanically fasten the membrane. Masonry walls must be parge-coated with a cementitious material before applying MEL-ROL XLT.

Hand-Rub and Roll Press ... Once positioned, immediately hand-rub MEL-ROL XLT membrane firmly to the surface and then pressure roll the complete surface to assure positive adhesion.

Inside Corners ... Before MEL-ROL XLT is applied, place a vertical DETAIL STRIP on inside corners extending the material 4.5" (114.3 mm) beyond each side of the corner. (See Diagram D.) Terminate at the footing and finish the corner with POINTING MASTIC.



Outside Corners ... Bend DETAIL STRIP vertically over the outside corner and extend 4.5" (114.3 mm) beyond each side of the corner. Terminate the material at the footing. Finish the corner with POINTING MASTIC. (See Diagram C.)

Drains and Protrusions ... All protrusions should be sealed with two layers of membrane applied at least 6" (152.4 mm) in all directions. Seal all terminations with POINTING MASTIC. Around drains, apply two layers of MEL-ROL XLT membrane and put a bead of POINTING MASTIC between the membrane and clamping rings and at all terminations, drains, and protrusions.

Inspect and Repair ... A thorough inspection should be made before covering and all necessary repairs made immediately. Tears and inadequate overlaps should be covered with MEL-ROL XLT membrane ... slit fish mouths and patch. Seal edges of all patches with POINTING MASTIC. Where applicable, horizontal applications can be flood-tested for 24 hours. All leaks should be marked and repaired when membrane dries.

Protect the Membrane ... on all vertical and horizontal installations with the immediate application of PROTECTION COURSE, if no drainage system is used, or MEL-DRAIN. To secure PROTECTION COURSE, use POINTING MASTIC as an adhesive, and/or physically attach at the top edge using TERMINATION BAR. Backfilling should be done immediately using care and caution to avoid damaging the waterproofing application.

PRECAUTIONS

Avoid the use of products that contain tars, solvents, pitches, polysulfide polymers, or PVC materials that may come into contact with MEL-ROL XLT. The use of MEL-ROL XLT does not negate the need for relief of hydrostatic heads. A complete drain tile system should be placed around the exterior of footing and under slabs, as required. Read and follow application information, precautions and material safety data sheet.

ACCESSORIES

MEL-PRIME Solvent-Based Adhesive ... This primer is for use at temperatures of 0° F (-18° C) and above for maximum adhesion. Apply by roller. (MEL-PRIME W/B can be used if application is in warmer climates.)

COVERAGE: 250-350 sq. ft./gal. (6.14 - 8.59 sq. m/L)
PACKAGING: 5 Gallon (18.93 Liter) Pails

MEL-ROL LIQUID MEMBRANE ... A two-component material used as a flashing, to form fillets at corners and at protrusions. May be used as a substitute for POINTING MASTIC.

COVERAGE: As a fillet, approximately 135 lineal feet per gallon (10.87 m per liter)

PACKAGING: 1 Gallon (3.79 Liter) Units, 4 Units per Carton.

POINTING MASTIC ... Used as an adhesive and for sealing top edge terminations on **DETAIL STRIP** and membrane, and to adhere **PROTECTION COURSE**.

COVERAGE: 1/8" x 1" x 200'/gal. (3.18 mm x 25.4 mm x 16.10 mL).

PACKAGING: 5 Gallon (18.93 Liter) Pails or 29 Oz. (857.65 ml) Cartridges, 12/ctn.

CATALYTIC BONDING ASPHALT ... Easy-to-apply, one-component material for sealing around rebar.

COVERAGE: 5 gal./1000 sq. ft./gal. (4.9 sq. m/L)

PACKAGING: 5 Gallon (18.93 Liter) Pails.

DETAIL STRIP ... Convenient, easy-to-use **DETAIL STRIP** provides an economical and effective method for sealing vertical and horizontal butt joints, i.e. inside or outside corners and where walls and footings meet.

PACKAGING: 9' x 50' (.23 x 15.24 m) roll, 4 rolls per carton.

PROTECTION COURSE ... Use for vertical and horizontal applications. Adhere with **POINTING MASTIC** or use mechanical fasteners.

PACKAGING: 4' by 8' (1.22 by 2.44 m) panels.

MEL-DRAIN ... A dimple-raised, molded polystyrene fabric designed to provide high flow capacity to reduce hydrostatic pressure build-up around waterproofing and vaporproofing membranes. Choice of drain types available for vertical, horizontal, and site applications.

TERMINATION BAR ... A high strength, pre-formed, multi-purpose plastic strip designed to support vertical membrane systems and **PROTECTION COURSE** at their termination point.

PACKAGING: 10' (Holes every 6" o/c, 2" from either end), 25 pieces per carton.

MAINTAIN ENERGY EFFICIENCY

Wet insulating materials lose much of their "R" factor performance characteristics, reducing the energy efficiency of the structure. W. R. MEADOWS thermal and moisture protection products play a key role in *maintaining* the structure's energy efficiency and aiding in the integrity of other structural systems, such as insulation.

LEED INFORMATION

May help contribute to LEED credits:

- EA Credit 1: Optimize Energy Performance
- IEQ Credit 3.1: Construction Indoor Air Quality Management Plan: During Construction
- IEQ Credit 7.1: Thermal Comfort - Design
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

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



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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