



Mel-Rol Waterproofing Membrane

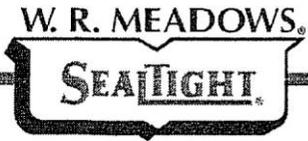
PURPOSE: To approve the use of Mel-Rol rolled self-adhering waterproofing membrane.

COMMENTS:

Mel-Rol waterproofing system is a flexible self-adhering backed roll type waterproofing membrane that may be used behind retaining walls or under a reinforced concrete structural slab. It is approved for use in Truckee provided it is installed in accordance with W.R. Meadows product data No. 714. At the time of this approval the most recent report is March 2008.

A primer is required for the under slab installation.

Please assure that the product data sheet is on site for the building inspector.



CSI Code: 07 13 26

NO. 714

MARCH 2008
(Supersedes February 2007)

MEL-ROL

Rolled, Self-Adhering Waterproofing Membrane

DESCRIPTION

MEL-ROL waterproofing system is a flexible, versatile, dependable, roll-type waterproofing membrane. 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 qualitycontrolled production procedures.

A handy overlap guideline is printed 2 h" (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™ primers (solvent-based and water-based), POINTING MASTIC, DETAIL STRIP, CATALYTIC BONDING ASPHALT, TERMINATION BAR, PROTECTION COURSE and MEL-DRAIN™ drainage board.

USES

MEL-ROL waterproofing system 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-the-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 offers positive protection when

"wrapped around" major rapid transit, vehicular, utility and pedestrian tunnel projects.

Installation of PROTECTION COURSE from W. R.

MEADOWS is recommended before backfilling. MEL-ROL can also be used with drainage boards when specified.

FEATURES/BENEFITS

- Provides cost-effective, flexible, versatile, dependable, positive waterproofing protection against damaging moisture migration and the infiltration of free water.
- 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 ft. ²/24 hours required by the flooring industry's specifications.
- Available in a low temperature version, for use when air and surface temperatures are between 20^o F (-7^o C) and 60^o F (16^o C).

PACKAGING

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

COVERAGE

Provides 180 ft.² (17.88 m²) per roll. Gross coverage is 192.5 ft.². (Net coverage is 180 ft.² with overlap of

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 90⁰F (32⁰C) for extended periods of time.

ADDITIONAL WATERPROOFING MEMBRANES FROM W. R. MEADOWS CAN BE FOUND BY VISITING OUR WEBSITE: www.wrmeadows.com

SPECIFICATIONS

- A.R.E.M.A. Specifications Chapter 29, Waterproofing

CONTINUED ON REVERSE SIDE...

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W. R. MEADOWS



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MEL-ROL COMBINES POSITIVE WATERPROOFING PROTECTION WITH EASE OF HANDLING

EXCLUSIVE FEATURES

A handy overlap guideline is printed 2 h" (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 N'IEL-ROL for positive membrane-to-membrane adhesion in the overlap area ... note the detail, as shown in inset photo.

TECHNICAL DATA		
PROPERTY	TYPICAL VALUE	TEST METHOD
COLOR ... Carrier Film Black	White POI meric Membrane	
THICKNESS ... Carrier Film POI meric Membrane	4 mils 56 mils	
TENSILE STRENGTH ... Carrier Film Membrane	5900 psi min. (40.71 MPa) 590 simin. (4.07 MPa)	ASTM D 412 (Die C)
ELONGATION ... Polymeric Membrane	455% min.	ASTM D 412 (Die C)
PERFORMANCE OF COMPOSITE MEMBRANE		
PEEL ADHESION	DIY Wet	7 lb./in. (125 g/mm) 7 lb./in. (125 hnm)
LAP ADHESION	Dry	5 lb./in. (90 g/mm)
PLIABILITY 180 ⁰ Bend, 1" (25.4 mm) Mandrel @ -25 ⁰ F (-32 ⁰ C	Unaffected	ASTM D 146
WATER VAPOR PERMEABILITY	0.019	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 70⁰F 2. Membrane placed over aporous base in a test cell and edges sealed. Water was placed over test plus 7 days at 120⁰F specimen. Cell fastened and sealed and placed under 105 psi (.73 MPa) (approx. 240' (73.1 m) water plus 7 days at 70⁰F head) pressure for 24 hours. Test specimen did not show any water to permeate the membrane. (dry) (wet).

POINTING MASTIC Bead
 DETAIL STRIP
 9" (22.86cm) wide

MEL-ROL IS QUICK AND EASY TO APPLY

APPLICATION

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

TENIPERATURE* ... Apply in dry, fair weather when the air and surface temperatures are above 40 °F (4 °C). Do not apply to frozen concrete.

*If VEL-ROL LOW can be used when air and surface temperatures are between 20 °F (-7 °C) and 60 °F (16 °C).

PR-IBE ... Prior to application, prime all surfaces to be covered in one working day with applicable VIEL-PRIN'IE primer. Uncovered, primed surfaces must be re-primed the next day. Follow all instructions and precautions shown on primer containers.

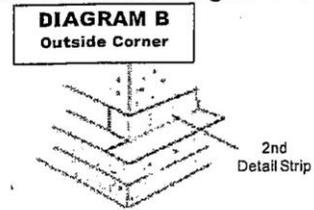
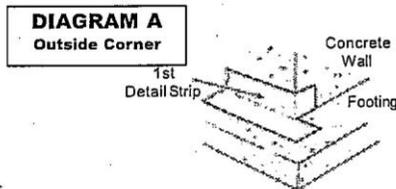
REMOVE release paper from VEL-ROL from the top edge of the roll and firmly press exposed area to the wall. Remove the release paper

BEL-ROL can. be applied to concrete, masonry' surfaces, wood, insulated wall systems and metal. All substrates must be clean, dry and free of all surface irregularities.

HORIZONTAL APPLICATION ... Remove release paper on edge, then position the IVIEL-ROL membrane. Pull balance of release paper off, running the roll from low to high points, so all laps will shed water. Stagger end laps and overlap all seams at least 2 h" (63.5 mm). Apply a double-thickness of the NEL-ROL membrane over construction, control and expansion joints and over cracks greater than 1/16" (1.59 mm) wide.

VERTICAL WALL APPLICATION ... Masonry walls may require the application of a cementitious pargecoat. Allow the parge-coat to dry before priming and applying BEL-ROL. When applied, the parge-coat will produce a smooth, uniform and well-

ne wall:



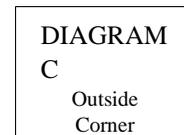
from the rolls in a downward direction, pressing BEL-ROL into place on the

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 h" (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 h" (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.

bonded surface. Remove release paper, then 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 h" (63.5 mm). Tightly butt edges of membrane and apply POINTING MASTIC in corner applications. (See Diagram C).

3rd. POINTING MASTIC



To the top terminations, apply POINTING MASTIC at least 1/8" (3.18 mm) thick and 1" (25.4

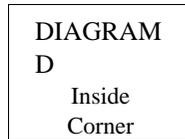
mm) wide. As an option, TERMINATION BAR may be used to mechanically fasten the membrane.

HAND-RUB AND ROLL PRESS ... Once positioned, immediately hand-rub the VIEL-ROL membrane firmly to the surface, removing any bubbles or wrinkles, then pressure roll the complete surface to assure positive adhesion.

INSIDE CORNERS ... Before is applied, place a vertical **DETAIL STRIP** on inside corners extending the material 4 h" (114.3 mm) beyond each side of the corner. (See Diagram D.) Terminate at the footing and finish the corner with **POINTING MASTIC**.

POINTING Concrete MASTIQZ« Wall
3rd.
DETAIL STRIP

1st
DETAIL STRIP Footing



OUTSIDE CORNERS ... Bend **DETAIL STRIP** vertically over the outside corner and extend 4 h" (114.3 mm) beyond each side of the corner. Terminate the material at the footing. Finish the corner with **POINTING MASTIC**. (See Diagram C.)

MEL,ROL

EC'FRIME
Primer

2 1/2" (6.35cm) Overlap

DETAIL STRIP
with a
MEL-PRIME Primer Wide overlap inside
and outside corners

POINTING MASTIC Bead or overlap
TERMINATION BAR

MEL-PRIME
Primer

TERMINATION BAR
or POINTING
MASTIC Bead

HORIZONTAL
MEMBRANE
(14.43 cm)

PROTECTION wide

DETAIL STRIP MEL-ROL
9" (22.86cm) wide
Waterproofing
Membrane

CATALYTIC BONDING ASPHALT

MEL-DRAIN
Rolled Matrix
Drainage System
or

COURSE

Drain Tile

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 **VEL-ROL** and put a bead of **POINTING MASTIC** between the membrane and clamping rings and at all terminations, drains and protrusions. See ASTM D 5898.

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 **VIEL-ROL ... slit fishmouths** and patch. Seal edges of all patches with **POINTING MASTIC**. Where applicable, horizontal applications can be floodtested for 24 hours. All leaks should be marked and repaired when membrane dries.

PROTECT THE ... on all vertical and horizontal installations with the immediate application of **PROTECTION COURSE** if no drainage system is used, or 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 IVEL-ROL. The use of IVEL-ROL 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 W/B . . . This water-based primer prepares concrete surfaces for IVEL-ROL application. Arrives ready to use. Requires no additional mixing. IVEL-PRIME W/B emits no unpleasant odors and works with all W. R. MEADOWS waterproofing membranes. Applies easily with manual sprayer or roller; VOC-compliant. IVEL-PRIME W/B is for use at temperatures of 40 °F (4° C) and up.

COVERAGE: 250 to 350 ft.²/gal. (6.14 to 8.59 m²/L)
PACKAGING: 1 Gallon (3.79 Liter) Units (4 units per carton) and 5 Gallon (18.93 Liter) Pails

MEL-PRIME . . . This solvent-based primer is for use at temperatures of 25 °F (-4 °C) and above. Apply by roller.

COVERAGE: 250-350 ft.²/gal. (6.14 to 8.59 m²/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 meters 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.



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

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

COVERAGE: 5 gal./1000 ft.²/gal. (4.9 m²/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 comers 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 . . . is a dimple-raised molded polystyrene fabric designed to provide high flow capacity to reduce hydrostatic pressure buildup around waterproofing and vaporproofing membranes. Choice of drain types are available for vertical, horizontal and site applications.

TERMINATION BAR ... is 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.

FOR MSDS AND MOST RECENT TECHNICAL DATA SHEET, VISIT www.wrmeadows.com.

this information. As W. R. NEA-DOWS, 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.

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