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MEL-DEK™ Deck Waterproofing System

DESCRIPTION

MEL-DEK is a roll-type waterproofing membrane that is 65 mils thick, composed of a polymeric waterproofing membrane on a shrink-resistant, heavy-duty, polypropylene woven carrier fabric. The two components are laminated together under strictly controlled production procedures.

USES

MEL-DEK waterproofing system provides an excellent waterproofing membrane for bridges, parking decks or other vehicular traffic structures to be overlaid with an asphalt concrete wearing course. MEL-DEK is ideal for repair, maintenance, or new construction applications.

FEATURES/BENEFITS

- Requires no protection ... can withstand the dynamic placement of hot asphalt overlays.
- Provides 3/4" (19.1 mm) membrane-to-membrane weld at seams for positive, monolithic protection.
- Flexible, dependable, cost-effective, easy to install.
- Meets a wide range of maintenance and new construction application needs.

PACKAGING

60' (18.29 m) long x 38.5" (.98 m) wide rolls

COVERAGE

180 ft.² net (16.72 m²) of effective waterproofing coverage. [192.5 ft.² (17.9 m²) gross coverage.]

SPECIFICATIONS

- ASTM D6153, Type III

TECHNICAL DATA

PROPERTY	TEST METHOD	TYPICAL TEST RESULTS
Thickness, mils:	N/A	65
Water Vapor Permeance (water method) perms:	ASTM E96	0.10
Tensile Strength - membrane (MD) psi:	ASTM D882	1616
Tensile Strength - membrane (CMD) psi:	ASTM D882	1476
Elongation at Break - membrane (MD) %:	ASTM D882	1468
Elongation at Break - membrane (CMD) %:	ASTM D882	1659
Puncture Resistance, lbf (N):	ASTM E154	243 (1081)
Low Temp Pliability [180° Bend, 1/4" (6.4 mm) mandrel @ -15° F (-26.1° C)]:	ASTM D146	No Cracking
Penetration @ 25° C (-3.9°F), dmm:	ASTM D5	77
Softening Point, °F (°C):	ASTM D36	205 (96.1)
Apparent Viscosity, cPs:	ASTM D3236	1,300

Independent test report available upon request.

APPLICATION

Note: For applications receiving overlays other than asphalt, please consult W. R. MEADOWS Technical Service.

Surface Preparation ... New concrete surfaces are to be fully cured and dry or approved by the engineer. Surface is to be cleaned of all dust, dirt, and debris just prior to priming. Existing concrete surfaces are to have a smooth, sound, monolithic surface, free of voids, spalled areas, sharp protrusions, and loose aggregate. Remove all traces of old membranes, oil, grease, or other contaminants. For enhanced bond between asphalt overlay and MEL-DEK, apply an asphalt emulsion, water-based tack coat to the surface of MEL-DEK.

CONTINUED ON REVERSE SIDE ...

Temperature ... MEL-DEK may be applied in fair weather at air and concrete surface temperatures of 40° F (4° C) and higher.

Joints and Slab Drainage ... Apply a reinforcing strip of DETAIL STRIP from W. R. MEADOWS over all non-working joints or cracks over 3/16" (4.76 mm) wide before applying finished membrane. Seal all terminations with POINTING MASTIC from W. R. MEADOWS. Deck surface must provide proper pitch to gutters and drains. Drainage openings should be provided at the structural deck level to drain any water that penetrates the asphaltic concrete surface.

Conditioning ... Condition all surfaces to be covered with MEL-PRIME™, MEL-PRIME N.E., or MEL-PRIME W/B adhesive from W. R. MEADOWS. Adhesive may be spray-applied or applied with a lamb's wool roller. Allow adhesive to dry until tack-free. Primed areas not covered in 24 hours must be re-primed. Coverage: 250 - 300 ft.²/gal. (6.14 - 7.36 m²/L).

Application Method ... Apply MEL-DEK from low point to high point in both the longitudinal and transverse directions. In the transverse direction, overlap in shingle fashion 2 1/2" (63.5 mm) after removing the white polyethylene strip that exposes the 3/4" (19.1 mm) rubberized asphalt. This will provide the membrane-to-membrane weld at seams. Longitudinally, overlap 6" (150 mm) and seal with POINTING MASTIC. Once positioned, MEL-DEK should be immediately hand-rubbed onto the surface, followed by a pressure-applied roll pressing of the complete surface to assure positive adhesion. Seal all terminations with POINTING MASTIC.

Note ... Where a 125+ mil thick membrane is desired, overlap each roll of MEL-DEK 51%.

Inspect and Repair ... Inspect thoroughly before covering and make any necessary repairs immediately. Patch all tears, slit fish mouths and patch, then seal edges of all patches with POINTING MASTIC.

Paving ... Placement of the asphalt concrete overlay should be accomplished as soon as possible after application of MEL-DEK. A minimum 2" (50 mm) compacted overlay thickness is required. The temperature of the asphalt concrete at the time of compaction should be a minimum of 290° F (143.3° C), not to exceed 340° F (171.1° C). Paving equipment should be rubber tire variety. Protect the membrane surface from unnecessary traffic. Place the overlay from low point to high point with care and caution.

PRECAUTIONS

Refer to Safety Data Sheet for complete health and safety information.

LEED INFORMATION

May help contribute to LEED credits:

- 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 CAD details, most recent data sheet, further LEED information, and SDS, 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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