



# **DATA SHEET NO. 7100-602**

# 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 19.1 mm (3/4") membrane-to-membrane weld at seams for positive, monolithic protection.
- Flexible, dependable, cost-effective, and easy to install.
- Meets a wide range of maintenance and new construction application needs.

# **PACKAGING**

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

#### **COVERAGE**

16.72 m<sup>2</sup> (180 ft.<sup>2</sup>) of effective waterproofing coverage. (17.88 m<sup>2</sup> [192.5 ft.<sup>2</sup>] gross coverage).

# SPECIFICATIONS/STANDARDS

ASTM D6153, Type III

# **TECHNICAL DATA**

TEST RESULTS  Thickness, mils:  N/A 65  Water Vapor Permeance (water method) perms:  Tensile Strength - membrane (MD) MPa, (psi):  Tensile Strength - membrane (CMD) MPa (psi):  Elongation at Break - membrane (MD) %:  Elongation at Break - membrane (CMD) %:  Puncture Resistance, N (lbf):  Low Temp Pliability [180° Bend, 6.4 mm (¾") mandrel @ -26.1° C)]:  Penetration @ 25° C, dmm:  Softening Point, °C:  ASTM D36  ASTM D36  ASTM D36  ASTM D36  P3.3	TEOTINIOAE DATA	I -	_
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dmm: Softening Point, °C: ASTM D36 93.3			
Softening Point, °C: ASTM D36 93.3	Penetration @ 25° C,	ASTM D5	77
,	dmm:		
Apparent Viscosity, cPs: ASTM D3236 1.300	Softening Point, °C:	ASTM D36	93.3
	Apparent Viscosity, cPs:	ASTM D3236	1,300

Independent test report available upon request

# **APPLICATION**

For full, detailed application instructions, see INSTALLATION GUIDELINE: MEL-DEK BRIDGE MEMBRANE available at www.wrmeadows.com. **Note:** For applications receiving overlays other than asphalt, please consult W. R. MEADOWS Technical Service.

Continued over ...

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Hampshire, IL / Cartersville, GA / York, PA / Fort Worth, TX Benicia, CA / Pomona, CA / Goodyear, AZ / Milton, ON Sherwood Park, AB www.wrmeadows.com info@wrmeadows.com **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.

**Temperature** ... MEL-DEK may be applied in fair weather at air and concrete surface temperatures of 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 4.76 mm (3/16") 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™ 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 tackfree. Primed areas not covered in 24 hours must be reprimed.

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 63.5 mm (2 1/2") after removing the white polyethylene strip that exposes the 19.1 mm (3/4") rubberized asphalt. This will provide the membrane-tomembrane weld at seams. Longitudinally, overlap 150 mm (6") 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 50 mm (2") compacted overlay thickness is required. The temperature of the asphalt concrete at the time of compaction should be a minimum of 143.3° C, not to exceed 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.

# MASTERFORMAT NUMBER AND TITLE

07 13 26 - Self-Adhering Sheet Waterproofing

For must current data sheet, LEED information, and SDS, visit <a href="https://www.wrmeadows.com">www.wrmeadows.com</a>

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WARRANTY: W. R. Meadows of Canada warrants that, at the time and place we make shipment, our materials will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM OF TRADE OR OTHERWISE. As the exclusive remedy for breach of this Warranty, we will replace defective materials, provided, however, that the buyer examine the materials when received and promptly notify us in writing of any defect before the materials are used or incorporated into a structure. Three (3) months after W. R. Meadows of Canada has shipped the materials, all our Warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates and no action for breach of any such duties may thereafter be commenced. W. R. Meadows of Canada shall in no event be liable for consequential damages. Unless otherwise agreed to in writing, no warranty is made with respect to materials not manufactured by W. R. Meadows of Canada. We cannot warrant or in any way guarantee any particular method of use or application or the performance of materials under any particular condition. Neither this Warranty nor our liability may be extended or amended by our salesmen, distributors or representatives, or by our distributor's representatives, or by any sales information or drawings.