



## PRODUCT DATA SHEET, PART NO. 89020

# ULTRASEAL 3750 MTO

BRIDGE DECK MEMBRANE, February 2011

### DESCRIPTION:

Ultraseal 3750 MTO Bridge Deck Membrane is a hot applied waterproofing compound specially formulated to protect and waterproof bridge and parking decks. It is composed of synthetic rubber polymers, inert mineral stabilizers, may contain reclaimed tire rubbers and specially selected compatible asphalt cement and resins. These materials are homogeneously blended to produce a compound that displays excellent low temperature flexibility, elongation, resilience, good adhesive properties and will accommodate movements caused by thermal cycling. Ultraseal 3750 MTO is a one part homogeneous mixture that forms a monolithic, seamless waterproof, fully bonded membrane, almost immediately after application. Ultraseal 3750 MTO is a reliable, consistent, contractor friendly waterproofing membrane with improved adhesion and is paving compatible, with tough and flexible properties. VOC=0 g/l.

### USE:

Ultraseal 3750 MTO is used to protect structures from damages caused by the infiltration of moisture, chlorides and other harmful materials. It is perfect for many applications including concrete bridge decks, parking garage decks, roofs, Portland cement concrete, asphalt concrete and can be installed over gypsum board, plywood or metal. Ultraseal 3750 MTO membrane is not formulated to be permanently exposed to sunlight and application over lightweight concrete is not recommended.

### APPLICATION:

Material is heated in a thermostatically controlled melter that uses oil as a heat transfer medium and is equipped with a mechanically operated agitator. The melter should also be equipped with devices for measuring and controlling the temperatures of the heat transfer oil and the waterproofing material. Recommended application temperature is 193-204° C (380-400°F). Hot product is applied by spreading material with a rubber squeegee to obtain the required thickness.

### PHYSICAL PROPERTIES:

Conforms to CAN/CGSB-37.50M89 and Ministry of Transportation, Ontario Canada Specifications as follows:

<u>Property</u>	<u>Test Method</u>	<u>Specifications</u>
Flash Point	CGSB-37.50-M89, ASTM D92	Min. 260°C (500°F)
Penetration @ 25°C (77°F)	CGSB-37.50-M89, ASTM D1191	110 Max.
Penetration @ 50°C (122°F)	CGSB-37.50-M89, ASTM D1191	160 Max.
Flow @ 60°C (140°F)	CGSB-37.50-M89, ASTM D1191	3.0 mm Max
Low Temperature Flexibility	CGSB-37.50-M89	Pass -25°C (-13°F)
Water Vapor Permeability	CGSB-37.50-M89, ASTM E96 Procedure E	1.7 ng/Pa.s.m <sup>2</sup> max
Ratio Toughness/Peak Load	CGSB-37.50-M89	5.5/0.04 Min.
Crack Bridging Capability	CGSB-37.50-M89	Pass -25°C (-13°F)
Softening Point °C	ASTM-D-2398	80°C (176°F)
Maximum Heating Temperature		204°C (400°F)

**PACKAGING** Material is packaged in cardboard boxes sized to accommodate a maximum of 40 lb (18.0 kg). Material contained in each box is wrapped in a quick melt liner which is dissolved and incorporated into the melted product. Standard packaging is 30 lb (13.6 kg) per box, palletized 75 boxes per pallet with an approximate net weight of 2,250 lb (1,021.0 kg). Pallets are moisture protected with a plastic wrapping and bound with a minimum of two layers of UV resistant stretch wrap.

**PERFORMANCE** Temperature fluctuations, site conditions, surface preparation, traffic, installation technique, material selection, shape factor and surface treatment compatibility influence the effectiveness and useful life of Pavement Preservation treatments. Consider and monitor each element for optimum results. Purchaser and end user should determine applicability for use in their specific conditions.

**WARRANTY** Manufacturer warrants that product meets applicable ASTM, AASHTO, Federal or State specifications at time of shipment. Techniques used for the preparation of the cracks and joints prior to sealing or filling are beyond our control as are the use and application of the products; therefore, manufacturer shall not be responsible for improperly applied or misused products. Remedies against manufacturer, as agreed to by manufacturer, are limited to replacing nonconforming product or refund (full or partial) of purchase price from manufacturer. All claims for breach of this warranty must be made within three (3) months of the date of use or twelve (12) months from the date of delivery by manufacturer, whichever is earlier. There shall be no other warranties expressed or implied. **For optimum performance, follow manufacturer recommendations for product installation.**

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