

**DESCRIPTION** DEERY 103-25F is a hot applied composition of modified asphalt cement and polyester fibers sealant that meets requirements of the Ohio Department of Transportation Specification # 825.05 – Type IV Crack Sealant. DEERY 103-25F contains no solvent, and is pre-reacted. The modified polymer modified asphalt base meets requirements of a Modified AASHTO M-173 specification and the sealant contains a minimum of 2% polyester fibers by total weight. VOC= 0 g/l.

**USE** DEERY 103-25F is a moderate viscosity pavement preservation sealant intended for highway, street, and aviation applications for sealing longitudinal and transverse joints and cracks in Asphalt or Concrete pavements. Properly installed, DEERY 103-25F is an effective barrier against damage from debris and moisture infiltration into cracks and joints within regions experiencing moderate high and low pavement temperatures.

**HEATING and APPLICATION** Sealant shall be heated in a hot-oil jacketed melter capable of constant mechanical agitation and equipped with a calibrated thermometer to monitor sealant temperature. Material shall be heated to and maintained at the Recommended Application Temperature during use. Material can be cooled and then reheated, but only if prolonged heating is avoided. Prolonged heating at or above Recommended Application Temperature may severely damage product. If overheating damage occurs, immediately drain machine completely and refill with new material. DEERY 103-25F is pre-reacted and can be applied immediately after heating to the Recommended Application Temperature. With pavement temperature at 40°F (4°C) or higher, place material into clean, dry cracks or prepared reservoirs using a wand applicator. Squeegee any excess sealant tight to pavement surface. Pavement may be warmed to 40°F (4°C) or higher with a Hot Air Lance. For more details on heating and application, refer to the **Installation Instructions-Hot Applied Sealant** sheet which is included with each pallet of product. Specific gravity of DEERY 103-25F is 1.28.

**PROPERTIES of DEERY 103-25F**  
**When sampled and heated to maximum heating temperature in accordance with ASTM D5167**

<u>Property</u>	<u>Test Method</u>	<u>DEERY 103-25F</u> (Including Fiber)	<u>Modified M-173</u> (Not including Fiber)
Softening Point	ASTM D36	190°F (88°C) minimum	
Flexibility 1", -20°F (-30°C), 90° bend, 10 sec.		Pass – No Cracks	
Polyester Fiber Content		2% by weight	
Viscosity @ 400 °F (204°C)	Brookfield	3,000 cp min.	
Cone Penetration @ 77°F (25°C)	ASTM D5329	25-45 dmm	50-90 dmm
Ductility @ 77°F (25°C)	ASTM D113		40 cm minimum
Bond @ 0°F (-18°C), 100% ext., 12.7 mm sample	ASTM D5329		Pass 5 cycles
Flow @ 140°F (60°C)	ASTM D5329		1.0 cm maximum
Resilience @ 77°F (25°C)	ASTM D5329		25-60%
Impact @ 0°F (-18°C)	MN DOT		Pass
Compression Recovery	MN DOT		.40 minimum
Asphalt Compatibility	ASTM D5329		Complete
Recommended Application Temperature	ASTM D5167	380-400°F (193-204°C)*	380-400°F (193-204°C)*
Maximum Heating Temperature	ASTM D6690	400°F (204°C) maximum*	400°F (204°C)*

\*Temperature of product measured at pavement surface. Use highest Recommended Application Temperature in cool weather.  
 \*Prolonged heating at or above Recommended Application Temperature may severely damage product.

**SPECIFICATION CONFORMANCE OF UTILIZED POLYESTER FIBERS**

Denier, ASTM D1577 3.0 to 6.0	Length – 0.25 +/- 0.02 inch (6.35 +/- 0.51mm)
Crimps; ASTM D3927 – None	Tensile strength, min, ASTM D2256 – 70,000 psi
Specific Gravity – 1.32-1.40	Minimum melting temperature – 475°F (246°C)
Ignition Temperature – 1,000°F minimum	

**PACKAGING** Packaging consists of individual boxes of product which are palletized into shipping units. Boxes are made from corrugated kraft board with a minimum rating of 44 ECT. Boxes contain a non-adherent film liner that permits easy removal of product from the box and quickly melts into the product during heating. Boxes use tape closure and do not contain any staples. Boxes are made from renewable resources and are fully recyclable. Pallets contain up to 75 boxes stacked in layers. Weight of product in boxes does not exceed 40 lbs. (18 kg). Pallet weights do not exceed 2880 lbs. (1310 kg). Pallets of product are weighed and sold by net product weight, not including weight of the boxes, pallet and outer wrapping. Boxes are labeled with the manufacturer, product name, product part no., product lot no., heating temperatures, safety information and use instructions. Palletized units are protected from the weather using a minimum 3 mil thick plastic bag, a weather and moisture resistant cap sheet and a minimum of 2 layers of 6 month u.v. protected stretch wrap. Pallets are labeled with the product part number, lot number and net weight. Installation instructions are provided with each pallet of product.

**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 these products meet 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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**FOR ADDITIONAL INFORMATION**

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