

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 Minimum Application Temperature during use. Material can be cooled and then reheated, but only if prolonged heating is avoided. Prolonged heating at or above Minimum 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 Minimum 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> <u>(Including Fiber)</u>	<u>Modified M-173</u> <u>(Not including Fiber)</u>
Softening Point	ASTM D36	190 °F (88 °C) minimum	
Flexibility 1", 90° bend, 10 sec.		Pass @ -20 °F (-29 °C),	
Polyester Fiber Content		2% by weight	
Viscosity @ 400 °F (204 °C)	ASTM D2669	3,000 cp min.	
Cone Penetration @ 77 °F (25 °C)	ASTM D5329	25-45 units	50-90 units
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) 5 hrs.	ASTM D5329		1.0 cm maximum
Resilience @ 77 °F (25 °C)	ASTM D5329		25-60%
Asphalt Compatibility	ASTM D5329		Pass
Minimum Application Temperature		380 °F (193 °C)*	380 °F (193 °C)*
Maximum Heating Temperature		400 °F (204 °C) maximum*	400 °F (204 °C)*

*Temperature of product measured at pavement surface. Use highest Minimum Application Temperature in cool weather.
 *Prolonged heating at or above Minimum 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 +/- 0.51 mm)
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 Product is supplied in either cardboard boxes, or in meltable boxless packaging. Both package types are labeled in accordance with OSHA, GHS, and specification requirements; are sold by net weight; are interlock stacked on 48 x 40 in. (122 x 102 cm) 4-way pallets; can be stored outside; and are covered with a weather resistant pallet cover and 2 layers of UV protected stretch wrap.

- o **BOX** packaging consists of cardboard boxes containing 30 lbs. (13.6 kg) of product with 75 boxes per pallet, weighing approximately 2250 lbs. (1020 kg). Boxes contain a quick melting release film for easy removal and are taped closed, without any staples.
- o **Meltable** packaging consists of approximately 30 lbs. (13.6 kg) completely meltable packages that are interlock stacked on pallets. To use, the pallet wrap is removed, and individual blocks are placed in the Melter. There are no individual cardboard boxes to open, empty, handle, or dispose of. Meltable packaging quickly melts into the product without affecting specification conformance. Meltable packaged sealant products are sold by the pallet only and individual packages are not indented for sale. For more details on meltable packaging go to <https://crafco.com/materials-documentation/>

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.**

FOR ADDITIONAL INFORMATION
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