

HOT APPLIED SEALANT, Part No. 80400

DESCRIPTION DEERY MODIFIED AC & FIBER is a hot applied, elastically modified composition of asphalt cement, polyester fibers, and other modifiers. The sealant contains no solvent, is pre-mixed and packaged, and conforms to the requirements of the specification designated herein. DEERY MODIFIED AC & FIBER exceeds the requirements of many State DOT specifications and contains 5 +/- 1/2 % of polyester fiber by total weight of asphalt cement. VOC=0 g/l.

USE DEERY MODIFIED AC & FIBER is a high viscosity pavement preservation sealant intended for highway, street, and aviation applications for sealing longitudinal and transverse joints and random cracks in asphalt or concrete pavements. Properly installed, DEERY MODIFIED AC & FIBER 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 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 MODIFIED AC & FIBER is pre-mixed 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 crack or prepared reservoir by means of 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. Specific Gravity of DEERY MODIFIED AC & FIBER is 1.14.

PROPERTIES of DEERY MODIFIED AC & FIBER
When sampled and heated to maximum heating temperature in accordance with ASTM D5167

<u>TEST</u>	<u>METHOD</u>	<u>SPECIFICATION</u> AFTER FIBER IS ADDED TO MODIFIED AC	<u>MODIFIED AC SPECIFICATION</u> PRIOR TO ADDING FIBER
Cone Penetration @ 77 °F (25 °C)	ASTM D5329	10-30 units maximum	
Penetration @ 77 °F (25 °C)	ASTM D5		100 minimum
Softening Point	ASTM D36	180 °F (82 °C) minimum	125 °F (52 °C) minimum
Flexibility 1" rod, 90° bend, 10 sec.		Pass @ 10 °F (-12 °C)	
Ductility @ 77 °F (25 °C), 5 cm/minute	ASTM D113	10 cm minimum	100 cm minimum
Ductility @ 39.2 °F (4 °C), 5 cm/minute	ASTM D113		50 cm minimum
Flashpoint, COC	ASTM D92	500 °F (260 °C) minimum	450 °F (232 °C) minimum
Minimum Application Temperature		380 °F (193 °C)*	
Maximum Heating Temperature		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 Heating Temperature may severely damage product.

PROPERTIES of POLYESTER FIBER

Denier	ASTM D1577	3.0 - 6.0
Length		0.25" ± 0.02"
Crimps		None
Specific Gravity		1.32 - 1.40
Tensile Strength	ASTM D2256	70,000 psi minimum
Elongation		35 - 38% Minimum
Melting Temperature		475 °F (246 °C)
Ignition Temperature		1,000 °F (538 °C) 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 28 lbs. (12.7 kg) of product with 75 boxes per pallet, weighing approximately 2100 lbs. (953 kg). Boxes contain a quick melting release film for easy removal and are taped closed, without any staples.
- o **Meltable** packaging consists of approximately 28 lbs. (12.7 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://crafcocomaterials-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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