

SPECIAL NOTE FOR OVERBAND CRACK SEALING

This special note will apply at each transverse (thermal) crack in the mainline pavement. Other cracks, such as longitudinal cracks, map cracking, etc., will not be crack sealed with this project. Crack sealing is to be done a minimum of two weeks prior to paving the asphalt surface.

1. **Description.** This specification covers overband crack sealing of thermal cracks.
2. **Materials.** Crack Sealant shall be Crafcro Polyfiber Type III or equivalent product. Sealant for asphalt pavements shall be single component, pre-mixed and pre-reacted wrapped in plastic, boxed in UV resistant wrapped pallets with net weights and batch numbers on each pallet and box from the manufacturer. The sealant application life when heated to application temperature is approximately 12 to 15 hours. Product shall be able to be reheated to application temperature after initial heat up without specification degradation. Hot applied polymer modified crack sealant: The hot pour liquid crack sealant shall contain 5.0% +/- 1/2% polyester fibers by weight of asphalt components (recycled fibers are not permitted). Hot applied polymer modified crack sealant shall meet ASTM D5167 as follows:

<u>Fiber</u>	<u>Properties</u>
Type	Polyester
Denier	3 to 5
Specific Gravity	1.38f
Min. Melt Temp.	475 F
Tensile Strength	78,000 to 88,000 PSI
Elongation at Break	35 to 38%

<u>Modified Sealant Material</u>	<u>Properties</u>
Cone Penetration, 77 F (ASTM D5329)	30 mm Max.
Safe Heating Temp.	400° F
Flexibility, 1", 90 bend, 10 sec.	Pass @ 0° F
Ductility, 77 F	10 cm min.
Softening Point	200° F
Asphalt Compatibility (ASTM D5329)	Pass

3. **Construction**
 - a. Routing of joints will not be required. No sealant material shall be placed until the joints and cracks have been cleaned of all loose dirt and material using a minimum of 125 psi/ 100 cfm air compressor.
 - b. After cleaning, all joints and cracks shall be heat lanced to clean and remove moisture. The heat lance shall be a LAB Model B or approved equal capable of producing air temperatures up to 2500° F. Cracks shall be inspected and approved by the Department prior to placing the sealant material. Final crack

cleaning and heat lancing shall not proceed in advance of sealing by more than 1/8 mile.

- c. The sealant container shall be a thermostatically controlled heated oil jacketed tank with the ability to agitate the sealant. Sealant shall be leveled or struck down with the use of a 3-inch disk attachment at the end of the wand applicator. The overband width of the hot applied modified crack sealant shall not exceed 3 inches in width or 1/8 inch in height above the surrounding pavement unless directed by the engineer.
 - d. Glenzoil 20 Plus, Crafcro Detack, or equal shall be sprayed on the placed sealant prior to opening to traffic at an application rate of approximately 1 gallon of Glenzoil 20 Plus/Crafcro Detack per 50 gallons of sealant.
 - e. All debris from the work must be removed prior to opening to traffic.
- 4. Measurement.** The Department will measure the quantity of OVERBAND CRACK SEALING in pounds. All work, equipment, and materials associated with placing the crack sealing, in accordance with this note, will not be measured and will be considered incidental to OVERBAND CRACK SEALING.
- 5. Payment.** The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
23071EN	OVERBAND CRACK SEALING	POUNDS