

## OVERBAND CRACK FILL

**1.1 Scope** – Clean cracks in HMA pavements and place the specified material into and over the crack.

**1.2 Material** – Use overband crack filler composed of a mixture of polymer modified asphalt cement and polyester fibers blended to provide 4.5 -5.5 percent polyester fibers, by weight. Use materials meeting the following:

**A. Polymer Modified Asphalt Cement for Overband Crack.**

The method for making the polymer modified asphalt cement will be the choice of the Contractor and/or supplier. Conform to ASTM D 5840 Table 1 for designation II-B with the following exceptions:

1. Tests on Original Product.

- a. Penetration at 25 °C, 100 g, 5 s, must be between 70 and 110 dmm, inclusive.
- b. Softening point by the ring-and-bell method, ASTM D 36 must be a minimum of 52 °C.

**B. Polyester Fibers for Overband Crack Fill.**

The polyester fibers must meet the following requirements:

- Length - 6.4 mm ± 0.05 mm
- Crimps - None
- Tensile strength - 480 MPa minimum
- Denier 3.0 to 6.0
- Specific gravity 1.32 to 1.40
- Melting temperature 245 °C minimum
- Ignition temperature 540 °C minimum

**1.2 Construction** – It will be the responsibility of the contractor to furnish all material, necessary manpower, equipment, and traffic control devices in order to complete the project.

All cracks will be cleaned using a compressed air system equipped with a moisture separator capable of producing a minimum pressure of 100 psi. Any loose dirt or vegetation not removed by this method will be removed using other tools. Sealant can not be applied to wet pavement. Cracks will be cleaned not more than 15 minutes before being filled.

Crack filler will be applied using a melter applicator equipped with an applicator wand. The melter applicator shall be capable of regulating material temperature up to 425°F. The applicator wand shall be a “V” or “U” shaped squeegee or round applicator head having a concave underside. Apply 4” wide for standard coverage. Apply Sealant at a thickness of 3/16 of an inch.

**1.3 Traffic Control**- Traffic Control will be the responsibility of the contractor and methods approved by the engineer. The Contractor shall not permit traffic on the overband crack filler until the material has cooled sufficiently. All work damaged at the time of construction will be replaced at the contractors cost.

**1.4 Acceptance** – The City of Marshall will inspect the work upon notification that the job has been completed. The contractor will be made aware of any deficiencies and have 5 working days to make corrections.

**1.4 Payment** – Payment will be made on **LUMP SUM** bases per location as highlighted by attached sheet.