



**DEVELOPMENTAL SPECIFICATIONS
FOR
TRANSVERSE JOINT LEVELING FOR HMA PAVEMENTS**

**Effective Date
October 20, 2009**

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE DEVELOPMENTAL SPECIFICATIONS AND THEY PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

09005.01 GENERAL.

- A.** Fill shallow depressions in the pavement and adjacent to cracks with an approved hot-applied, pourable, self-adhesive material that has a uniform texture, and adheres to the pavement surface. Fill all cracks in the application area. The intended purpose is to level the surface of the depression and improve the ride of the pavement.
- B.** When crack cleaning and filling is a part of the contract, that work will be covered by a separate specification.

09005.02 MATERIAL.

Use material consisting of an approved hot blended aggregate filled polymer mastic repair product for leveling, sealing, filling, and making thin bonded repairs to pavements. Use mastic specifically formulated to repair distresses which are larger than those typically repaired by crack and joint sealing, but do not requiring milling or patching methods for the repair. Use material that is flexible, self-adhering, and resistant to deformation by vehicle loadings. The following is a list of approved products. The Contractor has the option of using an approved equal product.

- PolyPatch mixtures manufactured by CRAFTO, INC.
- Mastic One manufactured by PAVETECH International
- Level and Go Repair Mastic manufactured by Deery American Corporation

09005.03 CONSTRUCTION.

A. Equipment.

- 1.** Furnish:
 - Equipment to prepare the pavement, including the removal of loose, deteriorated, or undesirable material from the joint to be repaired,
 - Heating and application equipment, and
 - Equipment needed to perform the leveling work.
- 2.** Standard cleaning methods used to clean pavements, such as power brooms, compressed air, high-pressure water, and hand tools will be acceptable. Water flushing will not be permitted in areas where considerable cracks are present in the pavement surface.

3. Use equipment, tools, and machines recommended by the product manufacturer for heating and distributing the leveling material. Maintain equipment in satisfactory working order at all times.

B. Construction.

1. Immediately prior to applying the leveling material, clean the surface and cracks of all loose material, vegetation, and other objectionable material. Obtain the Engineer's approval for surface preparation prior to applying material.
2. Ensure the pavement surface is dry prior to spreading the material across the joint or crack to be leveled.
3. Place the leveling material so the finish elevation is level with, or no more than 0.25 inch (5 mm) above, the surrounding pavement surface.
4. Heat and apply leveling material as recommended by the product manufacturer.

C. Limitations of Operations.

1. Conduct the work on one lane at a time unless the road is closed to traffic. If the road is not closed, conduct all operations to provide a minimum of inconvenience to traffic. Do not open the roadway with placed leveling material until the material is properly cured and will not track or be damaged by traffic.
2. Adjust the work schedule so that all work of transverse joint leveling will be completed in one working day if the road is not closed to traffic.
3. Apply Articles 1107.08, 1107.09, and 1108.03 of the Standard Specifications.

09005.04 METHOD OF MEASUREMENT.

Measurement will be as follows:

A. Transverse Joint Cleaning and Sealing.

1. Calculated based on centerline miles (kilometers) measured to the nearest 0.1 mile (0.1km). The calculations will be based on two-lane pavement, corrected for main line pavement of more than two lanes, including climbing lanes.
2. At intersections, rest areas, and interchanges designated for transverse joint leveling, the additional areas of widened pavement, ramps, storage lanes, turning lanes, paved medians, and parking in rest areas will not be separately measured for payment.
3. Between limits for which transverse joint cleaning and sealing is intended for either pavement or shoulders, no deductions will be made for bridges, intersections, or other interruptions where transverse joints are not to be cleaned and sealed.

B. Transverse Joint Leveling.

Pounds (kilograms) of material placed for Transverse Joint Leveling on the project. The Engineer will deduct unused quantities based on actual scaled weight (mass), product carton (container) content weight, or estimates.

09005.05 BASIS OF PAYMENT.

Payment will be the contract unit price as follows:

A. Transverse Joint Cleaning and Sealing.

1. Per mile (kilometer).
2. Payment is full compensation for furnishing all equipment, tools, labor, surface preparation, mixing, and placing the leveling material except for the leveling material.

B. Transverse Joint Leveling.

Per pound (kilogram).