

Subsection 4.29
Cleaning and Sealing Joints and Cracks

- I. Scope:** The Contractor will clean and seal joints and cracks in asphalt concrete roadway surfaces.
- II. Materials:** Furnish materials unless otherwise shown on the plans. Supply sealant materials as shown on the plans in accordance with Subsection 4.23 "Asphalts, Oils, and Emulsions." Furnish fine aggregate in accordance with Subsection 4.16.II.A.2, "Fine Aggregate."
- III. Equipment:** Provide equipment, tools, and machinery for proper execution of the work. Hot applied sealants shall be applied unless otherwise shown in the plans.
- A. Hot-Applied Sealants.** Heat in a double jacketed heater using a heat transfer oil so no direct flame comes in contact with the shell of the vessel containing the sealing compound. Provide a heater capable of circulating and agitating the sealant during the heating process to achieve a uniform temperature rise and maintain the desired temperature. Provide gauges to monitor the temperature of the vessel contents and avoid overheating the material. Provide a heater equipped with a gear driven asphalt pump with adequate pressure to dispense the sealant.
- B. Cold-Applied Sealants.** Provide equipment with adequate pressure to dispense the sealant in a continuous flow.
- IV. Construction:** Apply sealant when the air or pavement temperature is within the manufacturer's recommendations or as approved. Clean and seal joints and cracks that are 1/16 inch or greater in width. Fill cracks with sand for cracks greater than 1/2 inch, or as shown on the plans. Rout joints and cracks to the configuration shown on the plans when required. Clean joints and cracks with air blast cleaning or other acceptable methods to a depth at least twice the joint or crack width. Joints and cracks must be free of moisture before sealing. Dispose of materials removed as directed or approved. Apply sealant with a pressure nozzle. Completely fill cracks and joints. Squeegee material to no more than 3 inches wide and 1/8 inch above the pavement surface. Prevent tracking with an application of fine aggregate as directed.
- V. Measurement:** This Subsection will be measured by the lane mile. Crack and joint sealing done as part of the City overlay will be considered subsidiary to the hot mix price.
- VI. Payment:** The work performed and materials furnished in accordance with this Subsection and measured as provided under "Measurement" will be paid for by unit price of "Joint and Crack Sealing" of the sealant material specified. This price is full compensation for routing, cleaning, and sealing joints and cracks, including blotter material, and equipment, labor, tools, and incidentals.

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