

**STATE****OF****TENNESSEE**

(Rev. 12-1-01)

January 1, 2021

**SPECIAL PROVISION****REGARDING****CLEANING AND RESEALING TRANSVERSE AND****LONGITUDINAL JOINTS AND RANDOM CRACKS**

Description. This work shall consist of cleaning and resealing existing transverse and longitudinal joints and random cracks in portland cement concrete pavement, and joints between portland cement concrete pavement and asphaltic concrete pavement.

Materials. Material used to seal joints shall conform to the requirements of Subsection 905.05.

Equipment. All equipment necessary for the satisfactory performance of this construction shall be on the job and approved by the Engineer before work will be permitted to begin.

Joint Sealants shall be placed with equipment recommended by the sealant manufacturer. The equipment shall be capable of maintaining a uniform, homogeneous, mixture throughout the sealing operation.

Construction Requirements. Unless otherwise specified on the Plans, the longitudinal joints between Portland cement pavement and asphaltic pavement shall be prepared by sawing, or other approved method, so that an opening one inch wide by one inch deep measured from the lowest elevation is formed. Shoulder joints shall be filled full depth.

Pavement joints shall be re-sawed to the dimensions shown on the plans or as directed by the Engineer. Both sides of the joint shall be sawed in order to be thoroughly cleaned of all oil, grease, old sealant and all other foreign material. The faces of all sawed joints shall be sandblasted so that the sealant will adhere to the side of the joint. The sand shall be clean, sharp and have 100 percent passing the 2.0 millimeter (No. 10) sieve. The nozzle pressure shall be such that the joints will be cleaned out and the edges will have etched surfaces. Sandblasting and cleaning shall be done immediately prior to sealing, to assure proper preparation. Joints shall be dry before sealing.

Random Cracks shall be routed or chipped to the dimensions shown on the plans or as directed by the Engineer and shall be cleaned of all foreign material as specified above for joints.

The sealant shall be applied so that it flows into the joint without overlapping onto the concrete pavement. All sealant which overlaps onto the concrete pavement shall be removed by the contractor at his expense.

Hot poured sealant applied at other than the shoulder joint shall be placed to a depth as shown on plans after the bond breaker media has been placed to provide the proper shape factor. The sealant shall be applied in accordance with the manufacturer's recommendations and a primer shall be furnished and applied prior to sealing if so indicated in the recommendation. Any sealant spilled on the concrete shall be promptly removed.

The silicone sealant and backer rod shall be applied as shown on the plans and in accordance with the manufacturer's recommendations except as modified hereafter. The thickness of the silicone material measured from the highest point of the backer rod to the lowest point in the trough formed by the silicone material shall be as dimensioned on the plans within a tolerance of plus or minus 2 millimeters (1/16 inch). The application of primer shall be required if it is included in the manufacturer's recommendations.

Method of Measurement. Resealing Joints and Resealing Random Cracks will be measured by the meter (linear foot) along the surface of the joint or crack. No measurement of width or depth will be made.

Basis of Payment. Payment for Resealing Joints and Resealing Cracks shall be full compensation for the item complete in place, including sawing, cleaning, furnishing and installing all materials and all incidentals of the work. No additional payment will be made for irregular joint and crack widths or depths.