TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	98028-4263-04	3

STANDARD SPECIFICATIONS FOR APPLICATION OF LONGITUDINAL JOINT STABILIZER

ASPHALT PAVEMENT - LONGITUDINAL JOINT STABILIZATION

I. Scope:

This work shall consist of furnishing all labor, material, and equipment necessary to perform all operations for the application of an in-depth joint sealing system to provide Longitudinal Joint Stabilization on asphaltic concrete pavements. The sealing of joints shall be by spray application of a cationic joint sealer composed of petroleum oils and resins emulsified with water. All work shall be in accordance with the specifications, the applicable drawings, and subject to the terms and conditions of this contract.

II. Material Performance:

The longitudinal joint stabilizer shall have the capability to fully penetrate the asphalt pavement surface in the area around the construction joint to be sealed. No surface coating shall remain within thirty (30) minutes of application. The in-depth joint sealer shall be absorbed and incorporated into the asphalt cement.

III. Application Temperature/Weather Limitations:

The temperature of the longitudinal joint stabilizer at the time of application shall be as recommended by the manufacturer. The in-depth joint sealer shall be applied only when the existing surface to be treated is thoroughly dry and when it is not threatening to rain. The in-depth joint sealer shall not be applied when the ambient temperature is below 40°F degrees.

IV. APPLICATING EQUIPMENT:

The distributor truck for spreading the joint stabilizing sealer shall be self-propelled, and shall have pneumatic tires. The distributor shall be designed and equipped to distribute the in-depth joint sealer uniformly on variable widths of surface at readily determined and controlled rates from 0.08 to 0.30 gallons per square yard of surface, and with an allowable variation from any specified rate not to exceed 5 percent of the specified rate.

Distributor equipment shall include full circulation spray bars, pump tachometer, volume measuring device and a hand hose attachment suitable for application of the joint sealer manually to cover areas inaccessible to the distributor. The distributor shall be equipped to circulate and agitate the joint sealer within the tank.

A check of distributor equipment as well as application rate accuracy and uniformity of distribution shall be made when directed by the Engineer.

V. APPLICATION of Longitudinal Joint Stabilizer:

Whenever practical, the longitudinal joint stabilizer shall be applied within 24 hours of completion of the pavement section and before said pavement is opened to traffic.

The longitudinal joint stabilizer shall be applied by a distributor truck at the temperature recommended by the manufacturer and at the pressure required for the proper distribution. The in-depth sealer shall be so applied that uniform distribution is obtained at all points of the areas to be treated. Distribution shall be commenced with a running start to insure full rate of spread over the entire area to be treated. Areas inadvertently missed shall receive additional treatment as may be required by hand sprayer application.

Unless otherwise directed by the Engineer, the standard application width shall be (18") on either side of the construction joint. Application of the joint sealer shall be at a minimum of twelve, (12") inches on either side of the construction joint.

The in-depth joint sealer shall be spread at the rate of 0.08 to 0.30 gallons per square yard, or as approved by the Engineer following field testing.

Where more than one application is to be made, succeeding applications shall be made as soon as penetration of the preceding application has been completed and the Engineer grants approval for additional applications.

Grades or super elevations of surfaces that may cause excessive runoff, in the opinion of the Engineer, shall have the required amounts applied in two or more applications as directed.

The Contractor shall furnish a quality inspection report showing the source, manufacturer, and the date shipped, for each load of in-depth joint sealer. When directed by the Engineer, the Contractor shall take representative samples of material for testing.

VI. TRAFFIC CONTROL:

The Contractor shall schedule his operations and carry out the work in a manner to cause the least disturbance and/or interference with the normal flow of traffic over the areas to be treated. Treated portions of the pavement surfaces shall be kept closed and free from traffic until penetration, in the opinion of the Engineer, has become complete and the area is suitable for traffic. Every effort shall be made to apply the in-depth joint sealer while the new pavement is closed to traffic.

The Contractor shall be responsible for all traffic control and signing required to permit safe travel. If, in the opinion of the Engineer, proper signing is not being used, the Contractor shall stop all operations until safe signing and barricading is achieved.

VII. METHOD OF MEASUREMENT:

Application of Longitudinal Joint Stabilizer will be measured by the square foot as provided for in the Contract Documents.

VIII. BASIS FOR PAYMENT:

The accepted quantities, measured as provided for above, will be paid for at the contract unit price for longitudinal joint stabilizer application.

Longitudinal Joint Stabilization shall be paid for PER SQUARE FOOT, which shall be full compensation for furnishing all materials; equipment, labor and incidentals to complete the work as specified and required

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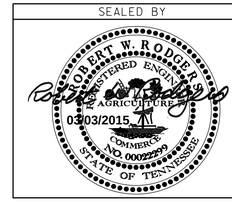

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD SPECIFICATION OF LONGITUDINAL JOINT STABILIZATION

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

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