

ITEM 407.01110101 ASPHALT EMULSION FOG SEALING FOR SHOULDERS AND MEDIAN STRIPS

DESCRIPTION

This work shall consist of fog sealing shoulders and median strips at the locations indicated in the contract documents or where directed by the Engineer and to the width and length required by the specifications.

MATERIALS

The fog seal asphalt emulsion shall meet the requirements specified in Section 702 - Bituminous Materials for Asphalt Emulsion Tack Coat.

This material shall meet the test requirements in Table 702-10 *Tack Coat*. Testing and certifying fog seal asphalt emulsion by the supplier and sampling of supplied material by Department representative shall be in accordance with the Department's Materials Method (MM) 8.2 *Asphalt Emulsion - Quality Assurance*.

CONSTRUCTION DETAILS

Equipment. Shall meet the requirements detailed in §407-3.01 *Equipment*.

Application of Fog Seal Asphalt Emulsion. Before the fog seal application can proceed, the Contractor shall do the following:

1. Clean and seal the joints and cracks when specified in the contract.
2. Vegetation growth shall be cut down and any remaining vegetation in the asphalt pavement shall be removed using a 20 kg propane cylinder with heating torch device or similar method approved by the Engineer.
3. Remove all surface dirt and debris.
4. The asphalt emulsion shall be applied within 7 calendar days after the vegetation has been removed and the surface cleaned.

The joint/crack cleaning and sealing, and the removal of dirt/debris shall be done using methods approved by and completed to the satisfaction of the Engineer. The fog seal asphalt emulsion shall be applied in a manner to offer the least inconvenience to traffic and to reduce pickup or tracking of the asphalt emulsion.

Fog seal shall not be applied on a wet pavement surface or when the surface temperature is below 7° C. The temperature and areas designated to be treated shall be as shown in the contract documents and as directed by the Engineer prior to application. The application rate shall be 0.20 to 0.70 liters per square meter as approved by the Engineer.

The contractor shall use the fog seal application equipment meeting the requirements of Subsection 407-3.01 and as approved by the Engineer.

METHOD OF MEASUREMENT

The quantity to be measured for payment will be in liters of fog seal asphalt emulsion measured at 16° C to the nearest liter. The following formula will be used to calculate material quantity at 16° C:

$$\text{Volume}_{16^{\circ}\text{C}} = \text{Volume}_D \times [1 - (\Delta T \times 0.00045)]$$

$$\Delta T = \text{Delivered Temperature } (^{\circ}\text{C}) - 16$$

$$\text{Volume}_D = \text{Quantity Delivered (liters)}$$

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BASIS OF PAYMENT

The unit price bid per liter of fog seal shall include the cost of all labor, materials, and equipment necessary to satisfactorily complete the work. Removing surface dirt and debris shall be included in the cost of this pay item.

Cleaning and sealing joints and cracks shall be paid separately under the appropriate pay item.

Payment will be made under:

Item No.	Item	Pay Unit
407.01110101	Asphalt Emulsion Fog Sealing for Shoulders and Median Strips	Liter

DISAPPROVED EI 12-022