

## **PART 1 - GENERAL**

### **1.1 SECTION INCLUDES**

- .1 Materials and application of asphalt tack coat to an existing asphalt or concrete surface prior to asphalt paving.

### **1.2 RELATED SECTIONS**

- .1 Section 01 33 00 - Submittal Procedures.

### **1.3 REFERENCES**

- .1 American Society for Testing and Materials International, (ASTM)
- .2 ASTM D140/D140M-09 , Standard Practice for Sampling Bituminous Materials.
- .3 Canadian General Standards Board (CGSB)
  - .1 CAN/CGSB-16.2-M89, Emulsified Asphalts, Anionic Type, for Road Purposes.

### **1.4 SUBMITTALS**

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.

### **1.5 QUALITY ASSURANCE**

- .1 Upon request by Departmental Representative, submit manufacturer's test data and certification that asphalt tack coat material meets requirements of this section.

### **1.6 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with. ASTM D140-01.
- .2 Provide, maintain and restore asphalt storage area.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- .1 Anionic emulsified asphalt: to CAN/CGSB-16.2, grade: SS-1.
- .2 Water: clean, potable, free from foreign matter.

### **2.2 EQUIPMENT**

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- .1 Pressure distributor to be:
  - .1 Designed, equipped, maintained and operated so that asphalt material can be:
    - .1 Maintained at even temperature.
    - .2 Applied uniformly on variable widths of surface up to 5 m.
    - .3 Applied at readily determined and controlled rates from 0.2 to 5.4 L/m<sup>2</sup> with uniform pressure, and with an allowable variation from any specified rate not exceeding 0.1 L/m<sup>2</sup>.
    - .4 Distributed in uniform spray without atomization at temperature required.
  - .2 Equipped with meter, registering metres of travel per minute, visibly located to enable truck driver to maintain constant speed required for application at specified rate.
  - .3 Equipped with pump having flow meter graduated in units of 5 L or less per minute passing through nozzles and readily visible to operator. Pump power unit to be independent of truck power unit.
  - .4 Equipped with an easily read, accurate and sensitive device which registers temperature of liquid in reservoir.
  - .5 Equipped with accurate volume measuring device or calibrated tank.
  - .6 Equipped with nozzles of same make and dimensions, adjustable for fan width and orientation.
  - .7 Equipped with nozzle spray bar, with operational height adjustment.
  - .8 Cleaned if previously used with incompatible asphalt material.

### **PART 3 - EXECUTION**

#### **3.1 APPLICATION**

- .1 Obtain Departmental Representative's approval of surface before applying asphalt tack coat.
  - .2 Apply asphalt tack coat only on clean and dry surface.
  - .3 Dilute asphalt emulsion with water at 1:1 ratio for application.
    - .1 Mix thoroughly by pumping or other method approved by Departmental Representative.
  - .4 Apply asphalt tack coat evenly to pavement surface at rate as directed by Departmental Representative but not to exceed 0.7 L/m<sup>2</sup>.
  - .5 Paint contact surfaces of curbs, gutters, headers, manholes and like structures with thin, uniform coat of asphalt tack coat material.
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- .6 Do not apply asphalt tack coat when air temperature is less than 10 degrees C or when rain is forecast within 2 hours of application.
- .7 Apply asphalt tack coat only on unfrozen surface.
- .8 Evenly distribute localized excessive deposits of tack coat by brooming as directed by Departmental Representative.
- .9 Where traffic is to be maintained, treat no more than one half of width of surface in one application.
- .10 Keep traffic off tacked areas until asphalt tack coat has set.
- .11 Re-tack contaminated or disturbed areas as directed by Departmental Representative.
- .12 Permit asphalt tack coat to set before placing asphalt pavement.