

**PART 1 - GENERAL**

- 1.1 MEASUREMENT PROCEDURES .1 No measurement for payment will be made under this section. Work performed under this Section will be incidental to work in other asphalt Sections and in the lump sum price bid.
- 1.2 REFERENCES .1 American Society for Testing and Materials International, (ASTM)  
.1 ASTM D 140-01 Standard Practice for Sampling Bituminous Materials.  
.2 Canadian General Standards Board (CGSB)  
.1 CAN/CGSB-16.2-M89, Emulsified Asphalts, Anionic Type, for Road Purposes.
- 1.3 ACTION AND INFORMATIONAL SUBMITTALS .1 Provide access on tank truck for Departmental Representative to sample asphalt material to be incorporated into Work, in accordance with ASTM D 140.
- 1.4 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.
- 1.5 DELIVERY, STORAGE AND HANDLING .1 Deliver, store and handle materials in accordance with ASTM D 140.  
.2 Provide, maintain and restore asphalt storage area.
- 1.6 WASTE MANAGEMENT AND DISPOSAL .1 Separate waste materials for in accordance with Section 017421 - Construction/Demolition Waste Management And Disposal.  
.2 Divert unused asphalt from landfill to facility capable of recycling materials.

**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 .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 and do 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.
- .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.

**\*\*\* END OF SECTION \*\*\***