

PART 1 - GENERAL

- 1.1 Related Sections .1 Section 32 12 16 - Hot-Mix Asphalt Concrete Paving
- 1.2 References .1 American Society for Testing and Materials International, (ASTM)
.1 ASTM D 140-2009, Standard Practice for Sampling Bituminous Materials.
.2 ASTM D 244-09, Standard Test Methods and Practices for Emulsified Asphalts.
.3 ASTM D 997-13, Standard Specification for Emulsified Asphalt.
- 1.3 Environmental Provisions .1 Tack coat spills larger than 70 L shall be immediately reported to the Newfoundland and Labrador Department of Environment & Conservation and the Departmental Representative.
.2 The Contractor shall take such steps as are necessary to abate the discharge, clean up the area affected, dispose of waste materials in an approved waste disposal site, and restore the environment to the satisfaction of the Newfoundland and Labrador Department of Environment & Conservation and the Departmental Representative, all at the Contractor's expense.

PART 2 - PRODUCTS

- 2.1 Materials .1 Emulsified Asphalt: Type SS-1 or Type SS-1h emulsified asphalt, to ASTM D 997 as the tack coat material.
.1The Departmental Representative shall be notified in advance as to which type the Contractor intends to use and the tack coat shall meet the following standards.
.2 Water: Water for forming the solution shall be clean water free from impurities.

PART 3 - EXECUTION

- 3.1 Equipment .1 Tack coat shall be applied by means of an approved pressure distributor equipped with thermometer, pressure gauge, fifth wheel tachometer and suitable spray nozzles which
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shall all be of the same orifice and manufacturer and capable of producing a fog-type spray. The slot of each nozzle shall be set at 30 degrees to the axis of the spray bar and the spray bar shall be set at a height above the existing pavement that will permit the fan from each nozzle to overlap its neighbouring fan by exactly half.

3.2 Application

- .1 Obtain Departmental Representative's approval of existing surface before applying asphalt tack coat. Clean surface as required.
- .2 Tack coat shall only be placed on surfaces that are clean and dry and then only when the atmospheric temperature is at least 10°C and when rain is not forecast within 2 hours of application.
- .3 Should the surface to be treated be dirty, then the Contractor shall thoroughly clean the surface by means of a power broom, or equivalent.
- .4 The Contractor shall plan his work so that no more tack coat than is necessary for the day's paving operation is applied at one time.
- .5 Paint contact surfaces of existing abutting asphalt surface with thin, uniform coat of asphalt tack coat material.
- .6 To avoid nuisance and possible property damage to the travelling public, the Contractor shall install portable traffic lights or other means of directing one-way traffic while working on the adjacent part of the road.
- .7 Type SS-1 or Type SS-1h emulsion shall be diluted with an equal volume of water prior to the application. The diluted SS-1 or SS-1h emulsion shall be applied at a rate of 0.3 to 0.5 l/m² of diluted emulsion on old pavement. Both the mixing temperature and the application temperature shall be between 20°C and 50°C. Care must be exercised not to exceed the recommended application rate.
- .8 Tack coat application shall be visually uniform. Areas of insufficient or non-uniform tack coat

coverage shall be corrected by the contractor at no cost to Canada.

- .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.

3.3 Curing

- .1 No hot mix shall be placed upon the tack coat until it has dried to a proper condition of tackiness, as determined by the Departmental Representative. The Contractor is advised that the period required for such drying will depend upon weather conditions.