

This section specifies requirements for the supply and application of an asphalt tack coat to an existing asphalt or concrete surface prior to asphaltic concrete paving.

PART 1 - GENERAL

1.1 Environmental Provisions

- .1 Should any tack coat spill larger than 70 L occur, then the spill shall be immediately reported to the Department of Environment & Conservation and the Departmental Representative. Contractors should verbally report the spill via the Canadian Coast Guard (telephone collect 737-2083).
- .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 Department of Environment & Conservation and the Departmental Representative, all at the Contractor's expense.

PART 2 - PRODUCTS

2.1 Materials

- .1 The Contractor has the option of using type SS-1 or type SS-1h emulsified asphalt, as the tack coat material. The 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 Type SS-1 or type SS-1h emulsified asphalt shall conform to ASTM D977-86. 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 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.
- .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 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.
- .6 The 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.
- .7 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.

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.