

PART 1 - GENERAL

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| <u>1.1 SECTION INCLUDES</u> | .1 | Materials and application of asphalt tack coat to an existing asphalt or concrete surface prior to asphalt paving. |
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| <u>1.2 REFERENCES</u> | .1 | Canadian General Standards Board (CGSB)
.1 CAN/CGSB-16.2-M89, Emulsified Asphalts, Anionic Type, for Road Purposes. |
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| <u>1.3 SUBMITTALS</u> | .1 | Submit samples in accordance with Section 01 33 00 - Submittal Procedures. |
| | .2 | Submit two - 1L samples of asphalt tack coat material proposed for use in new, clean, airtight, sealed, wide mouth jars to Departmental Representative, at least 2 weeks prior to beginning Work. |
| | .3 | Sample asphalt tack coat material to: ASTM D 140. |
| | .4 | Provide access on tank truck for Departmental Representative to sample asphalt material to be incorporated into Work, in accordance with ASTM D 140. |
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| <u>1.4 QUALITY ASSURANCE</u> | .1 | Upon request by Departmental Representative, submit manufacturer's test data and certification that asphalt tack coat material meets requirements of this section. |
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| <u>1.5 DELIVERY, STORAGE AND HANDLING</u> | .1 | Deliver, store and handle materials in accordance with ASTM D 140. |
| | .2 | Provide, maintain and restore asphalt storage area. |
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PART 2 - PRODUCTS

- 2.1 MATERIALS .1 The Contractor has the option of using type RC-70 cut back asphalt, a solution of type RS-1k emulsified asphalt or a solution of type SS-1h emulsified asphalt, as the tack coat material. or other materials approved by the Departmental Representative. 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:
- .1 Type RC-70 cut back asphalt shall conform to ASTM D2028-76.
 - .2 Type RS-1k emulsified asphalt shall conform to ASTM D977-85.
 - .3 Type SS-1h emulsified asphalt shall conform to ASTM D977-86. Water for forming the solution with the SS-1h shall be clean water free from impurities.

- 2.2 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 neighboring fan by exactly half.

PART 3 - EXECUTION

- 3.1 APPLICATION .1 Apply asphalt tack coat only on clean and dry surface and then only when the atmospheric temperature is a least 10 degrees C.
- .2 The type RC-70 tack coat shall be applied at a temperature between 38°C and 80°C and at a rate of 0.25 l/m2 on old pavement. Care must be exercised not to exceed the recommended application rate. However, on pavement which was placed during the previous construction season the rate of application shall be as directed by the Departmental Representative. The rate will not exceed the rate for the old pavement.
- .3 The type RS-1k tack coat shall be applied at t temperature between 38°C and 80°C and at a rate of

3.1 APPLICATION
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0.15 l/m² on old pavement. Care must be exercised not to exceed the recommended application rate. However, on pavement which was placed during the previous construction season the rate of application shall be as directed by the Departmental Representative. The rate will not exceed the rate for the old pavement.
- .4 The type SS-1h emulsion shall be diluted with an equal volume of water prior to the application. The diluted SS-1h emulsion shall be applied at a rate of 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 no to exceed the recommended application rate. However, on pavement which was placed during the previous construction season the rate of application shall be as directed by the Departmental Representative. The rate shall not exceed the rate for old pavement.
- .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 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.