

53.6 SUPPLY AND APPLY FOG COAT

53.6.1 GENERAL

The Work consists of supplying and applying a liquid asphalt to the surface of paved roadways to seal small cracks and surface voids and to repair oxidation, and prevent ravelling or aggregate loss. Where a fog coat covers existing pavement markings, the Work will also include the application of temporary pavement markings (spotting).

53.6.2 MATERIALS

The Contractor shall supply all materials necessary to complete the Work.

Liquid asphalt shall be either SS-1 or MC-30 and shall be supplied in accordance with Specification 55.5, Supply of Asphalt.

Paint and glass beads shall be supplied in accordance with the Special Provisions.

53.6.3 EQUIPMENT

The Contractor shall supply all equipment necessary to complete the Work.

53.6.3.1 Distributor

When application by machine is required, a self-powered pressure distributor equipped with the following control devices shall be used:

- tachometer,
- pressure gauge,
- adjustable length spray bar,
- positive displacement asphalt pump with separate power unit,
- heating coils and burner capable of applying even heat to the asphalt material, and
- thermometer well and accurate thermometer.

Before applying asphalt material, the Contractor shall ensure that the distributor meets the following adjustments and requirements:

- the distributor vehicle will maintain a constant height of the spray bar as the tank is unloaded,
- all spray bar nozzles are of the same manufacture, type, and size,
- clogged nozzles have been removed and cleaned with solvent,
- all nozzles have been set in the spray bar so that the nozzle slots make the same angle (15° to 30°) with the longitudinal axis of the spray bar,
- the spray bar has been adjusted to the correct height to ensure uniform application without streaking,
- the spray bar has been provided with a positive shut-off to prevent dribbling, and
- the distributor vehicle is capable of maintaining a uniform speed.

The distributor may be checked for calibration by the Engineer before being used on the Work.

53.6.4 PROCEDURE

All Work shall be performed during daylight hours only, unless adequate lighting exists which provides visibility of at least 700 metres and prior approval of the Engineer is obtained. No Work shall be performed when the visibility is less than 700 metres or when pavement surface is wet.

Traffic control and signing shall be performed in accordance with Specification 55.1, Traffic Accommodation and Temporary Signing.

Traffic shall not to be permitted to travel on the fog coat until it has cured.

Prior to the application of the asphalt material, loose dirt or other objectionable material shall be removed from the pavement surface by brooming or by other methods acceptable to the Engineer.

Where a fog coat to the entire roadway surface is required, the Contractor shall apply the fog coat to only one-half of the roadway at a time. The remaining half shall not be sprayed until the first application has properly cured.

The liquid asphalt shall be uniformly applied without streaking. The application rates will be as specified by the Engineer.

Joints and seams shall not be excessively overlapped. Structures adjacent to the roadway shall not be spattered by the asphalt material. The Contractor shall remove, at his own expense, any spattering caused by his operation.

Areas missed or inaccessible to the distributor shall be treated using hand spray equipment or other methods acceptable to the Engineer.

53.6.5 INTERIM TRAFFIC MARKINGS (SPOTTING)

Where a fog coat obliterates existing painted roadway lines, the Contractor shall provide interim painted traffic markings (spotting) on the fogged area. Spotting shall be applied immediately after the fog coat has cured and prior to darkness. The end points of the barrier lines shall be marked or otherwise referenced where applicable.

All spotting shall be applied using the same colour of paint as the permanent marking. Spots are to be 10 centimetres wide and 30 centimetres long, applied lengthwise to the road surface and shall delineate the travel lanes and or both edge lines as applicable. The maximum distance between spots shall be 15 metres on tangent sections and 10 metres on curves.

The spots and barrier line reference marks shall be completely covered with glass beads at the time of painting.

53.6.6 TIME TO COMPLETE

The Contractor shall complete the Work within 60 calendar days of the issuance of the Work Order

53.6.7 MEASUREMENT AND PAYMENT

53.6.7.1 Fog Coat Application

Measurement will be made in square metres of the area treated with a fog coat.

Payment will be made at the applicable unit price bid per square metre for "Fog Coat - Hand Spraying" or "Fog Coat - Distributor Application". This payment will be full compensation for hand spraying or distributor application, traffic accommodation and signing, and all labour, equipment, tools and incidentals necessary to complete the

Work.

Payment for any required cleaning of the roadway surface will be made in accordance with Specification 53.17, Sweeping.

53.6.7.2 Supply of Asphalt Material

Section 55.5.6 does not apply to fog coat work. Asphalt supplied and applied as fog coat will be measured based on supplier invoices as presented to the Engineer.

Asphalt for fog coat will be paid for:

- (a) at the agreed price as stated in the Engineer's Work Order to which no allowance will be added; or
- (b) if there is no agreed price, at the amount shown on the supplier's invoices, to which will be added 15%.

53.6.7.3 Paint and Glass Beads

Supplying and applying paint and glass beads will not be paid for separately but shall be considered incidental to the Work.

53.6.8 WARRANTY

The warranty period for this Work shall be 30 days.