

53.23 THERMOPLASTIC PAVEMENT MESSAGES

53.23.1 GENERAL

The Work consists of supplying and applying thermoplastic material on pavement surfaces to produce the required messages. The use of templates is required when applying the thermoplastic material.

53.23.2 MATERIALS

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

Thermoplastic materials shall be a homogeneous mixture of pigment, filler, resins and glass beads. The thermoplastic messages shall comply with the following:

- shall not lift from the pavement under any weather conditions
- shall not deteriorate by contact with sodium chloride, calcium chloride or residue from traffic
- shall show no appreciable deformation or discoloration under exposure to traffic and temperatures between -40°C and 40°C
- shall maintain their original dimension and placement without chipping or cracking.

Templates shall conform to the dimensions referenced in Specification 53.21, Painted Pavement Messages.

53.23.3 EQUIPMENT

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

53.23.4 PROCEDURE

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

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.

The Contractor shall ensure that thermoplastic messages match the existing messages exactly. When thermoplastic messages are required in areas where there are no existing messages or where revisions to the existing messages are required, the positioning of the pavement messages will be determined by the Engineer.

The Contractor shall inspect the work area and perform any sweeping or cleaning of the pavement surface which is required.

The thermoplastic material shall be applied to the pavement surface uniformly and utilizing templates. The completed messages shall have well defined edges. The Contractor shall comply with the manufacturers' recommended application procedures or best industry practice.

The Contractor shall keep traffic off the messages until the thermoplastic material is dry and will not track.

53.23.5 TIME TO COMPLETE

The Contractor shall complete the Work within 90 calendar days of the issuance of the Work Order.

53.23.6 MEASUREMENT AND PAYMENT

Measurement will be in square metres of the area of the messages applied.

Payment will be made at the unit price bid per square metre for "Thermoplastic Pavement Messages". This payment will be full compensation for inspecting the work areas, cleaning the pavement surface when necessary, supplying the templates, supplying and applying the thermoplastic material, traffic accommodation and signing, and all labour, materials, equipment, tools and incidentals necessary to complete the Work.

53.23.7 WARRANTY

The warranty period for this Work shall be 3 years.