



**MATERIAL SPECIFICATION FOR
SC-800 PATCHING MATERIAL**

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This specification covers the requirements for the manufacturing of SC-800 patching material.

1152.01.01 Specification Significance and Use

This specification is written as a provincial-oriented specification. Provincial-oriented specifications are developed to reflect the administration, testing, and payment policies, procedures, and practices of the Ontario Ministry of Transportation.

Use of this specification or any other specification shall be according to the Contract Documents.

1152.01.02 Appendices Significance and Use

Appendices are not for use in provincial contracts as they are developed for municipal use, and then, only when invoked by the Owner.

Appendices are developed for the Owner's use only.

Inclusion of an appendix as part of the Contract Documents is solely at the discretion of the Owner. Appendices are not a mandatory part of this specification and only become part of the Contract Documents as the Owner invokes them.

Invoking a particular appendix does not obligate an Owner to use all available appendices. Only invoked appendices form part of the Contract Documents.

The decision to use any appendix is determined by an Owner after considering their contract requirements and their administrative, payment, and testing procedures, policies, and practices. Depending on these considerations, an Owner may not wish to invoke some or any of the available appendices.

1152.02 REFERENCES

When the Contract Documents indicate that provincial-oriented specifications are to be used and there is a provincial-oriented specification of the same number as those listed below, references within this specification to an OPSS shall be deemed to mean OPSS.PROV, unless use of a municipal-oriented specification is specified in the Contract Documents. When there is not a corresponding provincial-oriented specification, the references below shall be considered to be to the OPSS listed, unless use of a municipal-oriented specification is specified in the Contract Documents.

This specification refers to the following standards, specifications, or publications:

Ontario Provincial Standard Specifications, Material

OPSS 1003	Aggregates - Hot Mix Asphalt
OPSS 1102	Liquid Asphalt
OPSS 1151	Superpave and Stone Mastic Asphalt Mixtures

Ontario Ministry of Transportation Publications

MTO Laboratory Testing Manual:

LS-282	Method of Test for Quantitative Extraction of Asphalt Cement and Analysis of Extracted Aggregate from Bituminous Paving Mixtures
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1152.03 DEFINITIONS

For the purpose of this specification, the following definition applies:

SC-800 Patching Material means a mixture of SC-800 liquid asphalt and mineral aggregate for patching holes, depressions, and distressed areas in existing pavements.

1152.04 DESIGN AND SUBMISSION REQUIREMENTS

1152.04.01 Design Requirements

The SC-800 patching material mixture composition selected shall meet all the requirements of this specification and shall maintain its effective properties in stockpile for a minimum period of eight months from the date of supply.

1152.04.02 Submission Requirements

The SC-800 patching material mixture composition shall be submitted to the Contract Administrator 7 Days before the start of production. The following items shall also be included in the submission:

- a) The SC-800 supplier, facility type, and location from which the SC-800 is being supplied.
- b) Test results for the SC-800 that demonstrate compliance to the requirements of the Liquid Asphalt subsection.
- c) The aggregate supplier and location from which the aggregates are being supplied.
- d) Type of aggregate and test results for the aggregates that demonstrate compliance to the requirements of the Aggregates subsection.
- e) Percent of SC-800 in the mixture, by mass, and test results that demonstrate compliance to the requirements of the Composition of Mixture subsection.
- f) Residual asphalt content, percent by mass of SC-800 patching mixture, when tested according to LS-282, in the mixture.

1152.05 MATERIALS

1152.05.01 Liquid Asphalt

The liquid asphalt shall be SC-800 and shall be according to OPSS 1102.

1152.05.02 Aggregates

The aggregates for SC-800 patching material shall be according to the requirements for Superpave 12.5 as specified in OPSS 1003.

1152.05.03 Composition of Mixture

The patching mixture shall contain between 4.0 and 6.0% of SC-800 by mass. The mixture shall be according to the gradation limits specified for Superpave 12.5 in OPSS 1151.

1152.07 PRODUCTION

1152.07.01 Preparation of Liquid Asphalt

The SC-800 liquid asphalt shall be heated at the asphalt plant to a temperature of 105 °C ± 10 °C.

1152.07.02 Preparation of Mixture

The mixture shall be prepared according to OPSS 1151 except that the discharge temperature of the mixture shall be $105\text{ }^{\circ}\text{C} \pm 10\text{ }^{\circ}\text{C}$.

1152.07.03 Tolerances

The test results according to LS-282 shall indicate that the composition of the mixture meets the following tolerances with respect to the submitted mixture composition:

SC-800, Residual: $\pm 0.3\%$

Retained 4.75 mm sieve: $\pm 5.0\%$

Passing 75 μm sieve: $\pm 2.0\%$

**Appendix 1152-A, November 2016
FOR USE WHILE DESIGNING MUNICIPAL CONTRACTS**

Note: This is a non-mandatory Commentary Appendix intended to provide information to a designer, during the design stage of a contract, on the use of the OPS specification in a municipal contract. This appendix does not form part of the standard specification. Actions and considerations discussed in this appendix are for information purposes only and do not supersede an Owner's design decisions and methodology.

Designer Action/Considerations

No information provided here.

Related Ontario Provincial Standard Drawings

No information provided here.

