



**MATERIAL SPECIFICATION FOR
HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND**

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1212.01 SCOPE

This specification covers hot poured rubberized asphalt joint sealing compounds for sealing joints in concrete or asphaltic concrete with a small amount of movement.

1212.01.01 Specification Significance and Use

This specification is written as a municipal-oriented specification. Municipal-oriented specifications are developed to reflect the administration, testing, and payment policies, procedures, and practices of many municipalities in Ontario.

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

1212.01.02 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.

1212.02 REFERENCES

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

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

Ontario Ministry of Transportation Publications

MTO Laboratory Testing Manual:

LS-262 Method of Test for Bulk Relative Density of Compacted Bituminous Mixtures

ASTM International

D5/D5M-20 Standard Test Method for Penetration of Bituminous Materials

D5329-20 Standard Test Methods for Sealants and Fillers, Hot-Applied, for Joints and Cracks in Asphalt Pavements and Portland Cement Concrete Pavements

D6690-01 Standard Specification for Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements

Canadian General Standards Board

CAN/CGSB 37.50-M89 Hot Applied Rubberized Asphalt for Roofing and Waterproofing

1212.05 MATERIAL

1212.05.01 Joint Sealing Compound

The joint sealing compound shall be according to ASTM D6690 and as specified in the Contract Documents.

1212.07 PRODUCTION

1212.07.01 General

Pouring point shall be at least 10 °C lower than the safe heating temperature recommended by the manufacturer.

1212.07.02 Quality Control

1212.07.02.01 Test Procedures

Where required by the Contract Administrator, the hot poured rubberized asphalt joint sealing compound shall be sampled and tested for cone penetration, flow, resilience, bond, toughness, and relative density as follows:

- a) Sample preparation shall be according to CAN/CGSB 37.50.
- b) Cone penetration, resilience, and bond testing shall be according to ASTM D5329.
- c) Flow testing shall be according to ASTM D5329 and ASTM D5.
- d) Toughness testing shall be according to CAN/CGSB 37.50.
- e) Relative density determination shall be according to LS-262.

Pouring point shall be the lowest temperature to which the material is heated and at which it is suitable for filling a 12.5 mm wide and 40 mm deep groove formed between two blocks of concrete without inclusions of large air voids or discontinuities and without damage to the material.

1212.07.02.02 Test Specimens

All bond test specimens shall not crack, or separate in the sealing compound, and/or between the sealing compound and sawn Portland cement block after completion of any required tests.

1212.07.03 Acceptance or Rejection

Notwithstanding the Owner's initial approval of the product, shipments of joint sealing compound represented by samples which fail in any respect to meet the requirements of this specification shall be rejected.

1212.07.04 Packaging and Marking

The sealing compound shall be packaged in 22 kg or smaller units. It shall be contained in a polyethylene bag in a metal container. Each container shall be legibly marked with the following information:

- a) Designated trade name of the compound.
- b) Manufacturer's name.
- c) Batch number.
- d) Date of manufacture.
- e) Quantity contained.

1212.08 QUALITY ASSURANCE

1212.08.01 Sampling

Samples for Quality Assurance testing may be taken by the Owner and tested for conformity to the specified requirements in this specification. All materials that fail to meet the specified requirements may be rejected by the Owner.

1212.09 OWNER PURCHASE OF MATERIAL

1212.09.01 Measurement and Payment

Hot poured rubberized asphalt joint sealing compound shall be measured in kilograms.

Payment at the price specified in the purchasing order shall be for supply of the hot poured rubberized asphalt joint sealing compound delivered to the destination on the date and time specified.

The cost of all testing, except that performed in the Owner's laboratory shall be included in the price.

**Appendix 1212-A, November 2022
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

The designer should specify the following in the Contract Documents:

- Joint sealing compound type. (1212.05.01)

The designer should ensure that the General Conditions of Contract and the 100 Series General Specifications are included in the Contract Documents.

Related Ontario Provincial Standard Drawings

No information provided here.