



**MATERIAL SPECIFICATION FOR PRIMER FOR
HOT-APPLIED RUBBERIZED ASPHALT
WATERPROOFING MEMBRANE**

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1216.01	SCOPE

This specification covers the material requirements for primer for use with hot-applied rubberized asphalt (HRA) waterproofing membranes.

1216.02 REFERENCES

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

Ontario Provincial Standard Specifications, Construction:

OPSS 914 Waterproofing Bridge Decks and Culverts with Hot-Applied Rubberized Asphalt Waterproofing Membrane

ASTM International

D5/D5M-20	Test Method for Penetration of Bituminous Materials
D36/D36M-14(2020)	Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
D88/D88M-07(2019)e1	Test Method for Saybolt Viscosity
D95-13(2018)	Test Method for Water in Petroleum Products and Bituminous Materials by Distillation
D2042-22	Test Method for Solubility of Asphalt Materials in Trichloroethylene or Toluene
D402/D402M-14	Test Method for Distillation of Cutback Asphaltic
D6511/D6511M-18	Test Method for Solvent Bearing Bituminous Compounds

1216.03 DEFINITIONS

For the purpose of this specification, the following definitions apply:

Hot-Applied Rubberized Asphalt (HRA) Waterproofing Membrane means as defined in OPSS 914.

Primer means as defined in OPSS 914.

1216.04 DESIGN AND SUBMISSION REQUIREMENTS

1216.04.01 Submission Requirements

1216.04.01.01 Volatile Organic Compound (VOC) Test Results

At least 14 Days prior to the application of primer, test results for the VOC content of the primer shall be submitted to the Contract Administrator.

1216.05 MATERIAL

1216.05.01 Primer

Primer shall meet the requirements of Table 1.

The primer used shall be as recommended by the HRA waterproofing membrane manufacturer.

The primer shall not be cutback or diluted.

1216.07 PRODUCTION

1216.07.01 Labeling

The following information shall be shown on the container of primer:

- a) Product name.
- b) Name of manufacturer.
- c) Batch/lot number.

1216.08 QUALITY ASSURANCE

1216.08.01 General

The laboratory designated by the Owner shall carry out quality assurance testing for purposes of ensuring that primer used in the work is according to the requirements of this specification. Individual test results shall be forwarded to the Contractor, as they become available.

1216.08.02 Sampling and Lot Size

Sampling and lot size for the primer shall be according to OPSS 914.

1216.08.03**Acceptance of Primer**

The primer shall be acceptable if the requirements of this specification are met.

A lot shall be deemed to be acceptable if all the test results for the sample of primer representing the lot meet the requirements of Table 1. Unacceptable lots shall be rejected.

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**TABLE 1
Primer Properties**

Property	Test Method	Acceptance Requirement
Distillate obtained, expressed as a percentage of total volume to 360°C (%)	ASTM D402	90 °C 25% minimum 225 °C 70% minimum 260 °C 80% minimum or 85% 315 °C 92% minimum
Distillate obtained as a percentage of volume of original cutback asphalt, distilled to 360 °C (%)	ASTM D402	Min. 30 %
Water Content (%)	ASTM D95	Max. 0.5 %
Matter soluble in trichloroethylene tested on distillate heated to 360 °C (%)	ASTM D2042	Min. 98 %
Penetration (100 g/25 °C/5 sec) tested on distillate heated to 360 °C (1/10 mm)	ASTM D5	25 to 85 (1/10 mm)
Softening Point tested on distillate heated to 360 °C (°C)	ASTM D36	49 to 80 °C
Saybolt Viscosity at 25 °C (seconds)	ASTM D88	50 to 400