
Standard Specification for Polymer-Modified Emulsified Asphalt

AASHTO Designation: M 316-23

Technically Revised: 2023

Editorially Revised: 2023

Technical Subcommittee: 2a, Emulsified Asphalts



American Association of State Highway and Transportation Officials
555 12th Street NW, Suite 1000
Washington, DC 20004

Standard Specification for

Polymer-Modified Emulsified Asphalt

AASHTO Designation: M 316-23

AASHTO

Technically Revised: 2023

Editorially Revised: 2023

Technical Subcommittee: 2a, Emulsified Asphalts

1. SCOPE

- 1.1. This specification covers 11 grades of polymer-modified cationic and anionic emulsified asphalt for use in pavement construction in the manner designated. The modifier may be either a solid or a latex polymer. The modifier may be added either to the asphalt binder or emulsifier solution prior to the emulsification process.

Note 1—See M 140 for specifications covering emulsified asphalt other than cationic and M 208 for specifications covering cationic emulsified asphalt.

2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*

- M 140, Emulsified Asphalt
 - M 208, Cationic Emulsified Asphalt
 - R 5, Selection and Use of Emulsified Asphalts
 - R 66, Sampling Asphalt Materials
 - R 77, Certifying Suppliers of Emulsified Asphalt
 - T 49, Penetration of Bituminous Materials
 - T 50, Float Test for Bituminous Materials
 - T 53, Softening Point of Bitumen (Ring-and-Ball Apparatus)
 - T 59, Emulsified Asphalts
 - T 72, Saybolt Viscosity
 - T 111, Mineral Matter or Ash in Asphalt Materials
 - T 301, Elastic Recovery Test of Asphalt Materials by Means of a Ductilometer
 - T 382, Determining the Viscosity of Emulsified Asphalt by a Rotational Paddle Viscometer
-

3. REQUIREMENTS

- 3.1. Upon receipt, refer to T 59 for the proper protocol for conditioning the emulsified asphalt prior to mixing and testing. The emulsified asphalt should appear to be homogeneous after thorough mixing. Complete testing of sample for emulsified asphalt properties within 14 days of the sample date. Complete testing for emulsified asphalt residue properties within 30 days of the sample date.

Note 2—Dilution of the emulsified asphalt to aid in the field application of the material should not occur without approval of the buyer.
