
Standard Specification for Materials for Emulsified Asphalt Fog Seal

AASHTO Designation: M 343-22¹

Adopted: 2022

Technical Subcommittee: 5b, Bridge and Pavement Preservation



**American Association of State Highway and Transportation Officials
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1. SCOPE

- 1.1. This standard specifies quality requirements for emulsified asphalt as used for fog seals.
- 1.2. A fog seal is the light application of emulsified asphalt to the pavement surface, which may be used to provide a surface seal, arrest light raveling, or create color contrast between traffic lanes and shoulders to improve visibility. Fog seals are also applied to newly placed chip seals to lock in loose chips and provide a more aesthetically pleasing finished product.
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2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
- M 140, Emulsified Asphalt
 - M 208, Cationic Emulsified Asphalt
 - M 316, Polymer-Modified Emulsified Asphalt
 - T 304, Uncompacted Void Content of Fine Aggregate
 - R 105, Emulsified Asphalt Fog Seal Design
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3. TERMINOLOGY

- 3.1. *Slow-setting type emulsified asphalt*—Any emulsified asphalt containing the designations CSS-1, CSS-1h, SS-1, and SS-1h.
- 3.2. *Medium-setting type emulsified asphalt*—Any emulsified asphalt containing the designations CMS-2, MS-2, or HFMS-2.
- 3.3. *Rapid-setting type emulsified asphalt*—Any emulsified asphalt containing the designations RS-2, CRS-2, or HFRS-2.
- 3.4. *Quick-setting type emulsified asphalt*—Any emulsified asphalt containing the designations QS, CQS, CQS-1P, or CQS-1hP.
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4. SIGNIFICANCE AND USE

- 4.1. This standard may be used to select and evaluate materials for use as emulsified asphalt fog seals.
- 4.2. Fog seal emulsified asphalts are most typically slow-setting emulsified asphalt without polymer, including diluted versions of SS-1, SS-1h or CSS-1, CSS-1h.
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