Standards and Practices

- Asphalt Emulsion Standards
- Asphalt Emulsion Treatments
- Pavement Preservation Treatment Materials Standards
- Pavement Preservation Treatment Design Practices
Asphalt Emulsion Standards

- Emulsified Asphalt
- Cationic Emulsified Asphalt
- Polymer-Modified Cationic Emulsified Asphalt

- M 140-16
- M 208-16
- M 316-16
## Asphalt Emulsion Treatments

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AASHTO PP 83-16

Standard Practice for Micro Surfacing Design

1. SCOPE

1.1. This standard practice for the design evaluation of microsurfacing properties to determine the durability of polymer-modified asphalt emulsion asphalt, mineral aggregate, water, mineral fillers, and additives to produce a microsurfacing job mix formula.

1.2. The values stated in SI units are to be regarded as the standard. The inch-pound units are presented in parentheses for informational purposes and may not be exact equivalents.

2. REFERENCED DOCUMENTS

2.1. AASHTO Standards:
   - M 95, Portland Cement
   - M 295, Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
   - M 331, Water for Asphalt Mixtures
   - M 339, Polymer-Modified Asphaltic Asphalt
   - MP 39, Materials for Micro Surfacing

2.2. ASTM Standards:
   - NSF/ANSI 61-2013, Drinking Water Treatment Chemicals—Health Effects

2.3. ISEA Standards:
   - ISEA TB 120, Test Method for Wall Track Adhesion of Slurry Surfacing Systems
   - ISEA TB 121, Test Method for Interlaminating Air Tests for Slurry Surfacing Systems
   - ISEA TB 114, Test Method for Wall Slip of Elevated Surfacing Systems
   - ISEA TB 115, Test Method for Determination of Cure and Cure Development of Slurry Surfacing Systems by Gas Chromatography
   - ISEA TB 144, Test Method for Classification of Aggregate Size-Return Compatibility by Sphericity, Shape, and Size

3. SIGNIFICANCE AND USE

3.1.
AASHTO PP 83-16 Contents

- Scope
- Referenced Documents
- Significance and Use
- Evaluation of Materials
- Design Process
- Determining Mix time
- Determining Set & Cure Characteristics
- Determining Binder Content
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- Determining Lateral Displacement
- Report
- Keywords
- References
AASHTO MP 28-17

Standard Specification for Materials for Micro Surfacing

Standard Specification for Materials for Micro Surfacing

AASHTO Designation: MP 28-17 (2018)¹

Technical Section: 5b, Bridge and Pavement Preservation

Release: Group 1 (April)

1. SCOPE

1.1. This standard covers requirements for emulsified asphalt, aggregate, mineral filler, and water used in micro surfacing. Micro surfacing is placed on existing pavement surfaces using specially designed paving machines.

2. REFERENCED DOCUMENTS

2.1. AASHTO Standards:

- M 17, Mineral Filler for Bituminous Paving Mixtures
- M 85, Portland Cement
- M 295, Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
- M 303, Lime for Asphalt Mixtures
- M 316, Polymer-Modified Emulsified Asphalt
- PP 83, Micro Surfacing Design
- T 11, Materials Finer Than 75 um (No. 200) Sieve in Mineral Aggregate by Weight
AASHTO MP 28-17 Contents

- Scope
- Referenced Documents
- Terminology
- Significance and Use
- Emulsified Asphalt Requirements
- Aggregate Requirements
- Mineral Filler
- Water
- Additives
- Key Words
Thank You

Any Questions or Comments?