
Standard Specification for Materials for Ultrathin Bonded Wearing Course

AASHTO Designation: MP 44-20¹

**Technical Subcommittee: 5b, Bridge and
Pavement Preservation**

Release: Group 1 (April)



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

- 1.1. This standard covers the requirements for polymer-modified emulsified asphalt, performance-graded asphalt binder, mineral aggregate, mineral filler, and additives used in an ultrathin bonded wearing course. An ultrathin bonded wearing course, usually $\frac{1}{2}$ to 1 in. (12.5 to 25.4 mm) thick is placed on existing pavement surfaces using specially designed paving machines.

2. REFERENCED STANDARDS

- 2.1. *AASHTO Standards:*
- [M 17](#), Mineral Filler for Bituminous Paving Mixtures
 - [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
 - [M 320](#), Performance-Graded Asphalt Binder
 - [M 332](#), Performance-Graded Asphalt Binder Using Multiple Stress Creep Recovery (MSCR) Test
 - [PP 100](#), Ultrathin Bonded Wearing Course Design
 - [T 49](#), Penetration of Bituminous Materials
 - [T 59](#), Emulsified Asphalts
 - [T 84](#), Specific Gravity and Absorption of Fine Aggregate
 - [T 85](#), Specific Gravity and Absorption of Coarse Aggregate
 - [T 96](#), Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
 - [T 104](#), Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate
 - [T 112](#), Clay Lumps and Friable Particles in Aggregate
 - [T 176](#), Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test
 - [T 210](#), Aggregate Durability Index
 - [T 301](#), Elastic Recovery Test of Asphalt Materials by Means of a Ductilometer
 - [T 304](#), Uncompacted Void Content of Fine Aggregate
 - [T 327](#), Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus