
Standard Practice for Slurry Seal Design

AASHTO Designation: PP 87-20 (2021)¹

Technically Revised: 2020

Reviewed but Not Updated: 2021

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



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

Standard Practice for

Slurry Seal Design

AASHTO Designation: PP 87-20 (2021)¹

AASHTO

Technically Revised: 2020

Reviewed but Not Updated: 2021

Technical Subcommittee: 5b, Bridge and Pavement Preservation

1. SCOPE

- 1.1. This standard practice for mix design evaluation uses mixture properties to determine the proportions of emulsified asphalt, mineral aggregate, water, mineral filler, and additives to produce a slurry seal job-mix formula.
-

2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
- M 17, Mineral Filler for Bituminous Paving Mixtures
 - M 85, Portland Cement
 - M 208, Cationic Emulsified Asphalt
 - M 295, Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
 - M 303, Lime for Asphalt Mixtures
 - MP 32, Materials for Slurry Seal
- 2.2. *ANSI Standard:*
- NSF/ANSI 60-2013, Drinking Water Treatment Chemicals—Health Effects
- 2.3. *ISSA Standards:*
- ISSA TB 100, Test Method for Wet Track Abrasion of Slurry Surfacing Systems
 - ISSA TB 106, Measurement of Slurry Seal Consistency
 - ISSA TB 109, Test Method for Measurement of Excess Asphalt in Bituminous Mixtures by Use of a Loaded Wheel Tester and Sand Adhesion
 - ISSA TB 113, Test Method for Determining Mix Time for Slurry Surfacing Systems
 - ISSA TB 114, Test Method for Wet Stripping of Cured Slurry Surfacing Mixtures
 - ISSA TB 139, Test Method to Determine Set and Cure Development of Slurry Surfacing Systems by Cohesion Tester
-

3. SIGNIFICANCE AND USE

- 3.1. The procedure described in this standard practice is used to evaluate a slurry seal job-mix formula.
-

4. EVALUATION OF MATERIALS

- 4.1. Evaluate the aggregate in accordance with MP 32.
-