
Provisional Specification for Performance-Graded Asphalt Binder for Surface Treatments

AASHTO Designation: MP 37-18 (2024)¹

First Published: 2018

Reviewed but Not Updated: 2024

Editorially Revised: 2024

Technical Subcommittee: 2b, Liquid Asphalt



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1. SCOPE

- 1.1. This specification covers asphalt binders for surface treatment applications graded by performance. Grading designations are related to the average seven-day maximum pavement surface design temperature and the minimum pavement surface design temperature. Surface treatment applications include seal coats and chip seals.

Note 1—For performance-graded asphalt binders used in hot mix applications, see M 320 or M 332.

2. REFERENCED DOCUMENTS

2.1. *AASHTO Standards:*

- M 320, Performance-Graded Asphalt Binder
- M 332, Performance-Graded Asphalt Binder Using Multiple Stress Creep Recovery (MSCR) Test
- R 28, Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)
- R 66, Sampling Asphalt Materials
- T 44, Solubility of Bituminous Materials
- T 48, Flash Point of Asphalt Binder by Cleveland Open Cup
- T 313, Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)
- T 315, Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)
- T 316, Viscosity Determination of Asphalt Binder Using Rotational Viscometer

2.2. *ASTM Standards:*

- D8, Terminology Relating to Materials for Roads and Pavements
- D95, Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation
- D7553, Standard Test Method for Solubility of Asphalt Materials in N-Propyl Bromide

2.3. *Other Reference:*

- LTPP Seasonal Asphalt Concrete Pavement Temperature Models, LTPPBind. Available from <https://infopave.fhwa.dot.gov/Tools/LTPPBindOnline>