



Designation: D5360/D5360M – 23

# Standard Practice for Design and Construction of Asphalt Surface Treatments<sup>1</sup>

This standard is issued under the fixed designation D5360/D5360M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This practice covers the design and construction of asphalt surface treatments. It is a guide and should be used as such. End-use specifications should be adopted to conform to job and user requirements.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.

1.3 The text of this standard references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.* For specific precautions, see Section 9.

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

## 2. Referenced Documents

2.1 *ASTM Standards:*<sup>2</sup>

D140/D140M Practice for Sampling Asphalt Materials

D448 Classification for Sizes of Aggregate for Road and Bridge Construction

<sup>1</sup> This practice is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.24 on Asphalt Surface Treatments.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

- D490 Specification for Road Tar (Withdrawn 2023)<sup>3</sup>
- D946/D946M Specification for Penetration-Graded Asphalt Binder for Use in Pavement Construction
- D977 Specification for Emulsified Asphalt
- D1139/D1139M Specification for Aggregate for Single or Multiple Asphalt Surface Treatments
- D1369 Practice for Quantities of Materials for Asphalt-Aggregate Surface Treatments
- D2027/D2027M Specification for Cutback Asphalt (Medium-Curing Type)
- D2028/D2028M Specification for Cutback Asphalt (Rapid-Curing Type)
- D2397/D2397M Specification for Cationic Emulsified Asphalt
- D2399 Practice for Selection of Cutback Asphalts
- D2995 Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors
- D3381/D3381M Specification for Viscosity-Graded Asphalt Binder for Use in Pavement Construction
- D3628 Practice for Selection and Use of Emulsified Asphalts
- D5624 Practice for Determining the Transverse-Aggregate Spread Rate for Surface Treatment Applications (Withdrawn 2022)<sup>3</sup>
- D6114/D6114M Specification for Asphalt-Rubber Binder
- D6154 Specification for Chemically Modified Asphalt Cement for Use in Pavement Construction
- D6373 Specification for Performance-Graded Asphalt Binder

## 3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *multiple surface treatment*—the asphalt surface produced by the repeat application of bitumen and aggregate a second or even a third time, with the aggregate size usually becoming smaller with each application. Each layer is immediately rolled, preferably with a pneumatic-tired roller.

3.1.2 *single surface treatment*—the asphalt surface produced by the application of bitumen to a prepared surface followed at once by an aggregate cover. The surface is immediately rolled, preferably with a pneumatic-tired roller.

<sup>3</sup> The last approved version of this historical standard is referenced on [www.astm.org](http://www.astm.org).