



Designation: D6372 – 23

Standard Practice for Design, Testing, and Construction of Microsurfacing¹

This standard is issued under the fixed designation D6372; 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 (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers the design, testing, and construction of mixtures of polymer-modified asphalt emulsion, mineral aggregate, mineral filler, water, and other additives, properly proportioned, mixed and spread on a paved surface. It is written as a guide and should be used as such. End use specifications should be adapted to conform to job and user requirements.

NOTE 1—This practice references test methods outside the jurisdiction of ASTM that may or may not have a precision statement.

1.2 The values stated in SI units are to be regarded as 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.*

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:²

C88/C88M Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate

C131/C131M Test Method for Resistance to Degradation of

Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

D8 Terminology Relating to Materials for Roads and Pavements

D2397/D2397M Specification for Cationic Emulsified Asphalt

D2419 Test Method for Sand Equivalent Value of Soils and Fine Aggregate

D3666 Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials

D3910 Practices for Design, Testing, and Construction of Slurry Seal

E145 Specification for Gravity-Convection and Forced-Ventilation Ovens

2.2 ISSA Documents:³

ISSA Technical Bulletin No. 100 Test Method for Wet Track Abrasion of Slurry Surfaces

ISSA Technical Bulletin No. 109 Test Method for Measurement of Excess Asphalt in Bituminous Mixtures by Use of a Loaded Wheel Tester and Sand Adhesion

ISSA Technical Bulletin No. 139 Test Method to Classify Emulsified Asphalt/Aggregate Mixture Systems by Modified Cohesion Tester, Measurement of Set and Cure Characteristics

ISSA A143 Recommended Performance Guidelines For Micro-Surfacing, revised May 2003

ISSA Technical Bulletin No. 144 Test Method for Classification of Aggregate Filler—Bitumen Compatability by Schultze-Breuer and Ruck Procedures

ISSA Technical Bulletin No. 147 Test Methods for Measurements of Stability and Resistance to Compaction, Vertical and Lateral Displacement of Multilayered Fine Aggregate Cold Mixes

3. Terminology

3.1 *Definitions*—For definitions of terms used in this standard, refer to Terminology **D8**.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *flashing, n*—as related to the compaction of microsurfacing test specimens, the excess material overhanging the two parallel bases of the cylindrical specimen.

¹ 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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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from International Slurry Surfacing Association, 3 Church Circle, PMB 250, Annapolis, MD 21401.