



Designation: F3513 – 24

Standard Practice for Single Component, Fluid-Applied Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings¹

This standard is issued under the fixed designation F3513; 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 properties, application, and performance of a single component, fluid-applied membrane-forming moisture mitigation system to high moisture concrete substrates prior to the installation of resilient flooring.

1.2 This practice includes recommendations for the preparation of the concrete surface to receive a single component, fluid-applied membrane-forming moisture mitigation system.

1.3 This practice does not supersede written instructions of the single component, fluid-applied membrane-forming moisture mitigation system manufacturer, the resilient flooring manufacturer, underlayment manufacturer, the adhesive manufacturer, or other components of the finish flooring system, or combinations thereof. Users of this practice should review manufacturer's technical data sheets and installation instructions for compatibility of system components.

1.4 The following are not included in the scope of this practice:

1.4.1 Moisture mitigation systems that chemically react with any constituent of the concrete to form a gel or crystalline substance within, or on the surface of, the concrete.

1.4.2 Penetrating, water- or solvent-based compounds that do not form a continuous membrane on the concrete surface.

1.4.3 Loose-laid sheet moisture mitigation systems.

1.4.4 Peel-and-stick moisture mitigation systems.

1.5 *Units*—The values stated in SI units are to be regarded as the standard. No other units of measurement are included in this standard.

1.6 *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 deter-*

mine the applicability of regulatory limitations prior to use. Some specific hazards statements are given in Section 8 on Hazards.

1.7 *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

C39/C39M Test Method for Compressive Strength of Cylindrical Concrete Specimens

C109/C109M Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 50 mm [2 in.] Cube Specimens)

C1583 Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)

D7234 Test Method for Pull-Off Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers

E96 Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials

F141 Terminology Relating to Resilient Floor Coverings

F710 Practice for Preparing Concrete Floors to Receive Resilient Flooring

F970 Test Method for Measuring Recovery Properties of Floor Coverings after Static Loading

F1869 Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

F2170 Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes

F2659 Guide for Preliminary Evaluation of Comparative

¹ This practice is under the jurisdiction of ASTM Committee F06 on Resilient Floor Coverings and is the direct responsibility of Subcommittee F06.40 on Practices.

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