Designation: C 957 – 04

Standard Specification for High-Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane With Integral Wearing Surface[1]

This standard is issued under the fixed designation C 957; 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 specification describes the required properties and test methods for a cold liquid-applied elastomeric membrane for waterproofing building decks not subject to hydrostatic pressure. The specification applies only to a membrane system that has an integral wearing surface. This specification does not include specific requirements for skid resistance or fire retardance, although both may be important in specific uses.

1.2 The type of membrane system described in this specification is used for pedestrian and vehicular traffic and in high-abrasion applications. The membrane may be single- or multi-component, and may consist of one or more coats (for example base coat, top coat, etc.). The coat(s) may be built to the desired thickness in one or more applications. One coat (base coat) provides the primary waterproofing function and normally comprises the major amount of organic material in the membrane. The function of the top coat(s) is to resist wear and weather. Aggregate may be used as a component of the membrane system, as all or part of a course, to increase wear and skid resistance.

1.3 Test methods in this specification require a minimum 0.5-mm (0.020-in.) base coat dry film thickness. Actual thickness required for a particular application and the use of aggregate in topcoats shall be established by the membrane manufacturer.

1.4 The values stated in SI units are to be regarded as the standard. The values given in parentheses are provided for information purposes only.

1.5 The following safety hazards caveat pertains only to the test method portion, Section 5, of this specification: *This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:* [2]

C 501 Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abraser

C 717 Terminology of Building Seals and Sealants

C 719 Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle)

C 794 Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants

C 836 Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course

D 412 Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers—Tension

D 471 Test Method for Rubber Property—Effect of Liquids

D 609 Practice for Preparation of Cold-Rolled Steel Panels for Testing Paint, Varnish, Conversion Coatings, and Related Coating Products

D 822 Practice for Conducting Tests on Paint and Related Coatings and Materials Using Filtered Open-Flame Carbon-Arc Exposure Apparatus

D 1133 Test Method for Kauri-Butanol Value of Hydrocarbon Solvents

D 2370 Test Method for Tensile Properties of Organic Coatings

G 151 Practice for Exposing Nonmetallic Materials in Accelerated Test Devices that Use Laboratory Light Sources

G 152 Practice for Operating Open Flame Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials

G 153 Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials

2.2 *U.S. Department of Commerce Standard:*

[1] This specification is under the jurisdiction of ASTM Committee C24 on Building Seals and Sealants and is the direct responsibility of Subcommittee C24.80 on Building Deck Waterproofing Systems.

Current edition approved May 1, 2004. Published July 2004. Originally approved in 1981. Last previous edition approved in 1998 as C 957 – 93(1998).

[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.