



Standard Test Method for Water Retention by Concrete Curing Materials¹

This standard is issued under the fixed designation C 156; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope²

1.1 This test method covers laboratory determination of the efficiency of liquid membrane-forming compounds for curing concrete, as measured by their ability to reduce moisture loss during the early hardening period.

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

1.3 *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 and health practices and determine the applicability of regulatory limitations prior to use.* (Warning—Fresh hydraulic cementitious mixtures are caustic and may cause chemical burns to skin and tissue upon prolonged exposure.)³

2. Referenced Documents

2.1 ASTM Standards:

- C 87 Test Method for Effect of Organic Impurities in Fine Aggregate on Strength of Mortar⁴
- C 150 Specification for Portland Cement⁵
- C 230/C 230M Specification for Flow Table for Use in Tests of Hydraulic Cement⁶
- C 305 Practice for Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency⁴
- C 778 Specification for Standard Sand⁴
- D 1475 Test Method for Density of Liquid Coatings, Inks, and Related Products⁵
- D 1653 Test Methods for Water Vapor Transmission of Organic Coating Films⁵
- D 2369 Test Method for Volatile Content of Coatings⁵
- E 178 Practice for Dealing with Outlying Observations⁴

3. Significance and Use

3.1 The moisture retaining ability of a product as determined by this test method is used to assess the suitability of materials for contributing to an appropriate curing environment for concrete. The laboratory test method is used both in formulating and in specifying or qualifying curing products. This test method gives the user a measure of the ability of tested curing materials to impede the escape of moisture from a hydraulic cement mortar. Since it is desirable to retain moisture in fresh concrete to promote the hydration process, failure of the product to minimize the escape of moisture may lead to loss of strength, cracking, shrinkage, or low abrasion resistance of the hardened concrete, or a combination thereof.

3.2 Many factors affect the laboratory test results. Test results obtained may be highly variable as indicated by the precision statement. Critical factors include the precision of the control of the temperature, humidity and air circulation in the curing cabinet, preparation and sealing of the mortar specimens, the age and surface condition of the mortar specimen when the curing product is applied, and the uniformity and quantity of application of the curing membrane.

4. Apparatus

4.1 *Mechanical Mortar Mixer*, as described in Practice C 305, or a larger size mixture operating on the same principle.

4.2 *Flow Table*, as described in Specification C 230/ C 230M.

4.3 *Molds* shall be made of metal, glass, hard rubber, or plastic, and shall be watertight and rigidly constructed to prevent distortion during molding of the specimens or handling of the mold containing fresh mortar. They shall have a minimum surface area of 12000 mm² (18.6 in.²), and a minimum depth of 19 mm (¾ in.). The top surface shall be round, square, or rectangular with length not more than twice the width. The top of the mold shall have a rim to provide a firm level surface to support the wood float and to facilitate the grooving and sealing steps of the procedure. The rim shall be parallel with the bottom surface of the mold.

NOTE 1—Take care to avoid use of an excessive amount of oil, grease, or mold release compound on molds, particularly along the top rim where

¹ This test method is under the jurisdiction of ASTM Committee C09 on Concrete and Concrete Aggregates and is the direct responsibility of Subcommittee C09.22 on Materials Applied to New Concrete Surfaces.

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² Section on Safety Precautions, Manual of Aggregate and Concrete Testing, *Annual Book of ASTM Standards*, Vol 04.02.

³ *Annual Book of ASTM Standards*, Vol 04.02.

⁴ *Annual Book of ASTM Standards*, Vol 04.01.

⁵ *Annual Book of ASTM Standards*, Vol 06.01.

⁶ *Annual Book of ASTM Standards*, Vol 14.02.

⁷ A Summary of Changes section appears at the end of this standard.

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Specifications for Structural Concrete, ACI 301-05, with Selected ACI References American Concrete Institute, 2005
Standard Handbook for Electrical Engineers Frank Fuller Fowle, 1922 *NEMA Handbook of Apparatus Standards ...*
National Electrical Manufacturers Association, 1928 **N.E.M.A. Handbook of Appartus Standards** National Electrical
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Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive
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Hydrographic Office, 1955 "Code of Massachusetts regulations, 1992" ,1992 Archival snapshot of entire looseleaf Code of
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Transmission Line Project, Montrose and San Miguel Counties ,2001 **The Reader's Guide to Microcomputer**
Books Michael Nicita, Ronald Petrusha, 1984 Aging and chronic disease: Public health challenge and education reform
Xiaodong Sun, Xuan Li, Qinghua Li, 2023-10-27 Annual Book of ASTM Standards ASTM International, American Society for
Testing and Materials, 2004

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