



Designation: C1180 – 24

Standard Terminology of Mortar and Grout for Unit Masonry¹

This standard is issued under the fixed designation C1180; 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 terminology covers terms, definitions of terms, descriptions of terms, nomenclature, and explanations of abbreviations, acronyms, and symbols specifically associated with standards under the jurisdiction of ASTM Committee C12 on Mortars and Grouts for Unit Masonry.

1.2 The definitions and descriptions of terms in this terminology pertain to Test Methods [C780](#), [C1019](#), [C1148](#), [C1324](#), and [C1403](#); Specifications [C144](#), [C270](#), [C404](#), [C476](#), [C887](#), and [C1384](#); Practice [C946](#); and Guide [C1586](#).

1.3 *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

- [C144](#) Specification for Aggregate for Masonry Mortar
- [C230/C230M](#) Specification for Flow Table for Use in Tests of Hydraulic Cement
- [C270](#) Specification for Mortar for Unit Masonry
- [C404](#) Specification for Aggregates for Masonry Grout
- [C476](#) Specification for Grout for Masonry
- [C780](#) Test Methods for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry
- [C887](#) Specification for Packaged, Dry, Combined Materials for Surface Bonding Mortar
- [C946](#) Practice for Construction of Dry-Stacked, Surface-Bonded Walls
- [C1019](#) Test Method for Sampling and Testing Grout for Masonry

¹ This terminology is under the jurisdiction of ASTM Committee C15 on Masonry - Manufactured Masonry Units, Mortars and Grouts and is the direct responsibility of Subcommittee C15.08 on Terminology.

Current edition approved June 15, 2024. Published June 2024. Originally approved in 1991. Last previous edition approved in 2022 as C1180 – 22. DOI: 10.1520/C1180-24.

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.

- [C1148](#) Test Method for Measuring the Drying Shrinkage of Masonry Mortar (Withdrawn 2019)³
- [C1232](#) Terminology for Masonry
- [C1324](#) Test Method for Examination and Analysis of Hardened Masonry Mortar
- [C1384](#) Specification for Admixtures for Masonry Mortars
- [C1403](#) Test Method for Rate of Water Absorption of Masonry Mortars
- [C1437](#) Test Method for Flow of Hydraulic Cement Mortar
- [C1586](#) Guide for Quality Assurance of Mortars

3. Terminology

3.1 The definitions in this terminology are specific to mortar and grout. For terminology specific to (1) clay masonry units; (2) concrete masonry units; (3) autoclaved aerated concrete masonry units; (4) roofing tile units; and (5) masonry, see Terminology [C1232](#).

3.2 Terms and Their Definitions:

admixture, *n*—substance other than the Specification [C270](#) prescribed materials of water, aggregate, and cementitious materials that is added to a masonry mortar as an ingredient to improve one or more chemical or physical properties of the conventional masonry mortar.

flow, *n*—in masonry mortar, a laboratory measurement of a fresh mortar's rheology using a flow table.

DISCUSSION—Flow is determined by placing a mortar sample on a flow table. The table is then mechanically raised and dropped a specified number of times under specified conditions. The increased diameter of the mortar sample is measured, indicating the flow. Since the concrete pedestal for flow table is critical for the flow test, flow determination cannot be performed in the field. "Flow" is different from "slump flow." The requirements for the flow table are found in Specification [C230/C230M](#). The test method for determining flow is found in Test Method [C1437](#).

mortar bond or grout bond, *n*—adhesion between mortar or grout and masonry units, reinforcement, or connectors.

water retention, *n*—the measured physical property of a plastic mortar indicating its ability, under suction, to retain its mixing water.

³ The last approved version of this historical standard is referenced on www.astm.org.

*A Summary of Changes section appears at the end of this standard

water retentivity, *n*—a characteristic of plastic mortar describing its ability to retain its mixing water.

workability, *n*—the ability of mortar to be easily placed and spread.

3.3 Definitions of Terms Specific to Indicated Standards:

reference mortar, *n*—mortar of the same composition as an admixed mortar except that the reference mortar does not include the admixture and may contain a different amount of water to obtain an equivalent flow or penetration as the admixed mortar.

C1384

SUMMARY OF CHANGES

Committee C12 has identified the location of selected changes to this standard since the last issue (C1180 – 22) that may impact the use of this standard. (June 15, 2024)

(1) Added C230/C230M and C1437 to Referenced Documents and revised the definition of *flow*.

(2) Deleted “admixed mortar,” “mortar, surface bonding,” “set accelerator,” “set retarder,” and “water repellent.”

(3) Deleted the definitions and any discussions for “aggregates,” “compressive strength,” “durability,” “gradation,” “grout for masonry,” “repoint,” “shrinkage,” “tuck

point,” “bond enhancer,” “sample, batch mixer,” “sample, disturbed,” “sample, mortar board,” “sample, mortar board,” “sample, undisturbed,” “workability enhancer.”

(4) Deleted the definition and discussion for “cementitious material.”

(5) Deleted the definition for “mortar.”

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