



Designation: C 1180 – 02

Standard Terminology of Mortar and Grout for Unit Masonry¹

This standard is issued under the fixed designation C 1180; 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 contains 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 for Unit Masonry.

1.2 The definitions and descriptions of terms in this terminology pertain to Test Methods C 780, C 952, C 1019, and C 1148 and Specifications C 144, C 270, C 404, C 476, C 887, C 1142, and C 1384.

2. Referenced Documents

2.1 ASTM Standards:

- C 144 Specification for Aggregate for Masonry Mortar²
- C 270 Specification for Mortar for Unit Masonry²
- C 404 Specification for Aggregates for Masonry Grout²
- C 476 Specification for Grout for Masonry²
- C 780 Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry²
- C 887 Specification for Packaged, Dry, Combined Materials for Surface Bonding Mortar²
- C 952 Test Method for Bond Strength of Mortar to Masonry Units²
- C 1019 Test Method of Sampling and Testing Grout²
- C 1142 Specification for Extended Life Mortar for Unit Masonry²
- C 1148 Test Method for Measuring the Drying Shrinkage of Masonry Mortar²
- C 1384 Specification for Modifiers for Masonry Mortars²

3. Terminology

3.1 Definitions:

admixed mortar, *n*—masonry mortar that deviates from those combinations of materials recognized by Specification C 270 in that it also contains an admixture. **C 1384**

admixture, *n*—substance other than the Specification C 270

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. **C 1384**

aggregates, *n*—a granular mineral material such as natural sand, manufactured sand, gravel, crushed stone, and air cooled blast furnace slag.

bond enhancer, *n*—admixture incorporated into a masonry mortar to increase the bond strength between the mortar and the masonry unit. **C 1384**

cementitious material, *n*—when proportioning masonry mortars, the following are considered cementitious material: portland cement, blended hydraulic cement, masonry cement, lime putty, and hydrated lime.

cementitious material, hydraulic, *n*—an inorganic material or a mixture of inorganic materials, that sets and develops strength by chemical reaction with water forming hydrates and is capable of doing so under water.

compressive strength, *n*—the maximum compressive load which a specimen will support divided by the cross sectional area of the specimen.

durability, *n*—the ability of a material to resist weathering action, chemical attack, abrasion, and other conditions of service.

flow, *n*—a laboratory measured mortar property that indicates the percent increase in diameter of the base of the truncated cone of mortar when it is placed on a flow table, and mechanically raised and dropped specified times under specified conditions.

gradation, *n*—the particle size distribution of aggregate as determined by separation with standard screens. Gradation of aggregate is expressed in terms of the individual percentages passing standard screens. Sieve analysis and screen analysis are synonyms when referring to gradation of aggregate.

grout, *n*—a mixture of cementitious materials, aggregates, water, with or without admixtures, initially produced to pouring consistency without segregation. Requirements for grout are contained in Specification C 476.

mortar, *n*—a mixture consisting of cementitious materials, fine aggregate, water, and with or without admixtures, that is used to construct unit masonry assemblies.

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

¹ This terminology is under the jurisdiction of ASTM Committee C12 on Mortars and Grouts for Unit Masonry and is the direct responsibility of Subcommittee C12.08 on Terminology.

Current edition approved Feb. 10, 2002. Published May 2002. Originally published as C 1180–91. Last previous edition C 1180–00a.

² *Annual Book of ASTM Standards*, Vol 04.05.