



Designation: C 1384 – 01

Standard Specification for Admixtures for Masonry Mortars¹

This standard is issued under the fixed designation C 1384; 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 pertains to admixtures for masonry mortars. Admixtures are substances other than Specification C 270 prescribed materials of water, aggregate, and cementitious materials that are used to improve one or more of the recognized desirable properties of conventional masonry mortar.

1.2 This specification does not cover coloring pigments.

NOTE 1—Information on coloring pigments can be found in Specification C 979.

1.3 This specification does not cover additives that are added to the cementitious materials during the manufacture of the cementitious materials.

1.4 Acceptance of an admixture is based on its performance in an admixed mortar. Acceptance of the admixed masonry mortar is based on attainment of performance either equivalent to that required for conventional mortar or improved performance of one or more indicated properties, while maintaining required performance levels for other properties.

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

NOTE 2—The testing laboratory performing the test methods referenced in this specification should be evaluated in accordance with Practice C 1093.

2. Referenced Documents

2.1 *ASTM Standards:*

C 91 Specification for Masonry Cement²

C 144 Specification for Aggregate for Masonry Mortar³

C 150 Specification for Portland Cement²

C 207 Specification for Hydrated Lime for Masonry Purposes²

C 270 Specification for Mortar for Unit Masonry³

C 305 Practice for Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency²

C 403 Test Method for Time of Setting of Concrete Mix-

tures by Penetration Resistance⁴

C 595 Specification for Blended Hydraulic Cements²

C 723 Practice for Chemical-Resistant Resin Grouts for Brick or Tile³

C 778 Specification for Standard Sand²

C 780 Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry³

C 979 Specification for Pigments for Integrally Colored Concrete⁴

C 1093 Practice for Accreditation of Testing Agencies for Unit Masonry³

C 1152 Test Method for Acid-Soluble Chloride in Mortar and Concrete⁴

C 1157 Performance Specification for Hydraulic Cement²

C 1218 Test Method for Water-Soluble Chloride in Mortar and Concrete⁴

C 1329 Specification for Mortar Cement²

C 1357 Test Method for Evaluating Masonry Bond Strength³

C 1403 Test Method for Rate of Water Absorption of Masonry Mortars³

C 1437 Test Method for Flow of Hydraulic Cement Mortar²

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

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

3.1.2 *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.

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

3.1.4 *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.

¹ This specification is under the jurisdiction of ASTM Committee C12 on Mortars and Grouts for Unit Masonry and is the direct responsibility of Subcommittee C12.09 on Modified Mortars.

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² *Annual Book of ASTM Standards*, Vol 04.01.

³ *Annual Book of ASTM Standards*, Vol 04.05.

⁴ *Annual Book of ASTM Standards*, Vol 04.02.

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