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Standard Specification for Modifiers for Masonry Mortars¹

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1. Scope *

1.1 This specification pertains to modifiers for masonry mortars. Modifiers are used to improve one or more of the recognized desirable properties of conventional masonry mortar.

1.2 Acceptance of a modifier is based on its performance in a modified mortar. Acceptance of the modified 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.

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

NOTE 1—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 Mixtures 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

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.

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

C 1093 Practice for Accreditation of Testing Agencies for Unit Masonry³

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

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

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

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

3.1.2 *modified mortar, n*—masonry mortar that deviates from those combinations of materials recognized by Specification C 270 in that it also contains a modifier.

3.1.3 *modifier, n*—substance added to a masonry mortar as an ingredient that improves one or more chemical or physical properties of the conventional masonry mortar.

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

3.1.5 *set accelerator, n*—substance incorporated into a masonry mortar to shorten the time of setting of a mortar.

3.1.6 *set retarder, n*—substance incorporated into a masonry mortar to lengthen the time of setting of a mortar.

3.1.7 *water repellent, n*—substance incorporated into a masonry mortar to decrease the rate of water absorption of the hardened mortar.

3.1.8 *workability enhancer, n*—substance incorporated into a masonry mortar to increase the ease of being worked and used. A workability enhancer will increase the board life and maintain the water retention of a mortar.

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