



Standard Specification for Packaged, Dry, Combined Materials for Surface Bonding Mortar¹

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1. Scope

1.1 This specification covers the materials, properties, and packaging of dry, combined materials for use as surface bonding mortar with concrete masonry units that have not been prefaced, coated, or painted.

1.2 This specification does not cover design or application. Consult the manufacturer for specific recommendations.

1.3 **Appendix X1** of this specification contains the recommended tests for evaluation of surface bonded masonry assemblages used to establish design loads for the composite wall.

1.4 **Appendix X2** through **Appendix X5** of this specification contain additional tests that may be performed on surface bonding mortar.

1.5 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.6 *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. This hazard statement applies only to Section 9 of this specification.*

2. Referenced Documents

2.1 ASTM Standards:²

C91 Specification for Masonry Cement

C109/C109M Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)

C138/C138M Test Method for Density (Unit Weight), Yield,

and Air Content (Gravimetric) of Concrete

C144 Specification for Aggregate for Masonry Mortar

C150 Specification for Portland Cement

C187 Test Method for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste

C191 Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle

C207 Specification for Hydrated Lime for Masonry Purposes

C260 Specification for Air-Entraining Admixtures for Concrete

C305 Practice for Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency

C348 Test Method for Flexural Strength of Hydraulic-Cement Mortars

C349 Test Method for Compressive Strength of Hydraulic-Cement Mortars (Using Portions of Prisms Broken in Flexure)

C359 Test Method for Early Stiffening of Hydraulic Cement (Mortar Method)

C494/C494M Specification for Chemical Admixtures for Concrete

C595/C595M Specification for Blended Hydraulic Cements

C618 Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete

C666/C666M Test Method for Resistance of Concrete to Rapid Freezing and Thawing

C1157 Performance Specification for Hydraulic Cement

C1600 Specification for Rapid Hardening Hydraulic Cement

E72 Test Methods of Conducting Strength Tests of Panels for Building Construction

E96/E96M Test Methods for Water Vapor Transmission of Materials

E119 Test Methods for Fire Tests of Building Construction and Materials

E447 Test Method for Compressive Strength of Laboratory Constructed Masonry Prisms (Withdrawn 1997)³

E514 Test Method for Water Penetration and Leakage Through Masonry

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 C12.06 on Surface Bonding.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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