



Standard Specification for Surface-Applied Bonding Compounds for Exterior Plastering¹

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This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope

1.1 This specification covers minimum requirements for exterior surface-applied bonding compounds for improving the adhesion of cementitious material to concrete or other masonry surfaces or any structurally sound surfaces.

1.2 This specification also covers test methods for determining performance requirements and physical properties.

1.3 The values stated in inch-pound units are to be regarded as the standard. The SI metric values given in parentheses are approximate and are provided for information purposes only.

1.4 The following safety hazards caveat pertains only to the test methods described in Sections 9, 10, 11, and 12 in this specification: *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.*

2. Referenced Documents

2.1 *ASTM Standards:*²

C11 Terminology Relating to Gypsum and Related Building Materials and Systems

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

C150 Specification for Portland Cement

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

C511 Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the

Testing of Hydraulic Cements and Concretes
C778 Specification for Sand

3. Terminology

3.1 Definitions used in this specification shall be in accordance with Terminology C11.

4. Physical Properties

4.1 *Surface Applied Bonding Compound*—A freeze-thaw stable composition, suitable for brush, roller, or spray application. It shall be tinted to show by visual inspection where it has been applied. The tint shall not bleed through the material being bonded.

4.2 *Consistency*—The bonding compound shall be free of foreign matter as determined by visual inspection and shall be of such uniform consistency that when applied in accordance with the producer's directions by brush, roller, or spray to concrete, masonry, or other structurally sound surface, the bonding compound shall flow on evenly and dry uniformly.

4.3 *Film Characteristics*—The film-forming property shall be determined by visual inspection to determine the presence of a continuous film not broken by fisheyes, cracking, pull-back, or any other discontinuity in the film surface. It shall not be noticeably affected by alkaline surfaces or weak acids.

4.4 *Re-Emulsification*—Product conforming with this specification shall not re-emulsify.

5. Performance Requirements

5.1 *Bonding Capability*—The bonding compound shall be capable of bonding cementitious materials when applied in accordance with the producer's directions and tested as specified in Section 12.

5.2 *Degradation*—Bonding compound which separates shall be able to be re-mixed to a uniform consistency when tested as specified in Section 10.

5.3 *High Temperature Test*—The bond strength shall be not less than 150 psi (1034 kPa) when tested as specified in Section 9.

¹ This specification is under the jurisdiction of ASTM Committee C11 on Gypsum and Related Building Materials and Systems and is the direct responsibility of Subcommittee C11.02 on Specifications and Test Methods for Accessories and Related Products.

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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.