Designation: C 587 – 02

Standard Specification for Gypsum Veneer Plaster[1]

This standard is issued under the fixed designation C 587; 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.

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

1. Scope *

1.1 This specification covers calcined gypsum mixed at the mill with other ingredients to control working quality and setting time; specifically designed as a veneer plaster to be applied over gypsum base for veneer plasters, masonry or concrete surfaces to a maximum thickness of ¼ in. (6.4 mm) providing a surface ready for decoration.

NOTE 1—Specification C 843 contains application procedures for gypsum veneer plaster.

1.2 This specification covers test methods for determining the physical properties of gypsum veneer plasters and sets forth minimum requirements that must be met.

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 text of this standard references notes and footnotes which provide explanatory material. These notes and footnotes shall not be considered as requirements of the standard.

1.5 The following safety hazards caveat applies only to the Test Methods portion, Section 5 of 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:*

C 11 Terminology Relating to Gypsum and Related Building Materials and Systems[2]

C 473 Test Methods for Physical Testing of Gypsum Panel Products[2]

C 588 Specification for Gypsum Base for Veneer Plasters[2]

C 843 Specification for Application of Gypsum Veneer Plaster[2]

3. Terminology

3.1 *Definitions:*

3.1.1 Definitions of terms shall be in accordance with Terminology C 11 and Specification C 843.

3.2 *Definition of Term Specific to This Standard:*

3.2.1 *gypsum veneer plaster systems*, *n*—veneer plaster applied in accordance with Specification C 843 to gypsum base for veneer plasters.

4. Physical Properties

4.1 *Joint Strength*—Gypsum veneer plaster systems applied in accordance with Specification C 843 shall be tested in accordance with 5.9. The breaking load shall be not less than the parallel to surfacing loads specified in Specification C 588.

4.2 *Bond Strength*—The bond strength of the gypsum veneer plaster to the gypsum veneer base and, where applicable, between the base coat plaster and the finish coat shall not delaminate when tested in accordance with 5.6.

4.3 *Impact Strength*—Gypsum veneer plaster systems shall not crack or lose bond beyond the impact area when tested in accordance with 5.7.

4.4 *Flexure*—Gypsum veneer plaster systems shall exhibit crack resistance within the field of the gypsum base for veneer plasters such that radial or random cracking shall extend not more than ½ in. (13 mm) from the break line at failure when tested in accordance with 5.8. At rupture of the panel the veneer plaster shall be securely bonded to the face paper.

5. Test Methods

5.1 *Materials*—Gypsum Base for Veneer Plaster, see Specification C 588.

5.2 *Sampling*—Sample not less than 1 % of the packages, but not less than 5 packages. Select packages to be sampled at random. Take samples both from the outer portion and the center of each package. Thoroughly mix the materials so obtained to provide a composite sample of not less than 15 lb (6.8 kg). Place this composite sample immediately in a clean, dry, airtight container for delivery to the laboratory.

[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 C11.01 on Specifications and Test Methods for Gypsum Products.

Current edition approved Oct. 10, 2002. Published November 2002. Originally published as C 587 – 66. Last previous edition C 587 – 97ε1.

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

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