



Designation: C 475/C 475M – 02

## Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board<sup>1</sup>

This standard is issued under the fixed designation C 475/C 475M; 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 all-purpose, taping and finishing joint compounds, paper joint tape and glass-mesh joint tape.

1.1.1 The joint materials used in this standard are designed to be used with gypsum board installed in accordance with Specification C 840.

1.2 This specification also covers the minimum requirements for an assembly of taping and all-purpose compound and joint tape.

1.3 The text of this specification references notes and footnotes that provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the specification.

1.4 The values stated in either inch-pound or SI (metric) units are to be regarded separately as standard. Within the text, the SI units are shown in parentheses. The values stated in each system shall be used independent of the other. Values from the two systems shall not be combined.

### 2. Referenced Documents

#### 2.1 ASTM Standards:

C 11 Terminology Relating to Gypsum and Related Building Materials and Systems<sup>2</sup>

C 474 Test Methods for Joint Treatment Materials for Gypsum Board Construction<sup>2</sup>

C 840 Specification for Application and Finishing of Gypsum Board<sup>2</sup>

D 123 Terminology Relating to Textiles<sup>3</sup>

D 3882 Test Method for Bow and Skew in Woven and Knitted Fabrics<sup>4</sup>

<sup>1</sup> 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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<sup>2</sup> Annual Book of ASTM Standards, Vol 04.01.

<sup>3</sup> Annual Book of ASTM Standards, Vol 07.01.

<sup>4</sup> Annual Book of ASTM Standards, Vol 07.02.

F 1615 Specification for Cautionary Labeling for Five-Gallon Open-Head Plastic Containers<sup>5</sup>

### 3. Terminology

3.1 *Definitions*—Definitions shall be in accordance with Terminology C 11.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *glass-mesh joint-tape, n*—a strip of multidirectional glass yarn material designed to reinforce the joint between two gypsum boards.

3.2.2 *joint tape, n*—a strip of material used to conceal and reinforce the joint between two gypsum boards.

3.2.3 *joint tape, self-adhering, n*—a joint tape manufactured to adhere directly to the substrate.

3.2.3.1 *Discussion*—Tapes having this quality do not require mechanical or embedment means of attachment to the substrate.

3.2.4 *paper joint tape, n*—a strip of paper reinforcing material designed to be embedded in the joint compound and to reinforce the joint between two gypsum boards.

3.2.5 *skewness, n*—as defined in Terminology D 123.

### 4. Physical Properties

4.1 *General*—The physical properties shall be determined in accordance with Test Methods C 474, except as noted.

4.2 *Joint Compounds.*

4.2.1 *Check Cracking*—No cracks in the thinner half of the wedge and no deep fissure cracks in the thicker half of the wedge.

4.2.2 *Putrefaction*—No putrefaction in less than 4 days.

4.2.3 *Shrinkage*—Not more than 35 % by volume.

4.3 *Joint Tape*—The following tests are required of all joint tape:

4.3.1 *Width*—Shall be not less than 1 7/8 in. (48 mm) nor more than 2 1/4 in. (60 mm). The width of an individual roll shall vary not more than ± 1/32 in. (1 mm).

4.3.2 *Thickness*—Shall be not more than 0.012 in. (0.30 mm).

<sup>5</sup> Annual Book of ASTM Standards, Vol 15.07.

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