



Designation: C 570 – 00

# Standard Specification for Oil- and Resin-Base Caulking Compound for Building Construction<sup>1</sup>

This standard is issued under the fixed designation C 570; 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 ( $\epsilon$ ) 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 the properties of a one-component oil- or resin-base caulking compound, or both, for use in building construction. Oil- and resin-base defines the group that will oxidize and surface skin as opposed to the nondrying type primarily designed for application to concealed surfaces.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.3 The following precautionary caveat pertains only to the test method portion, Section 9, 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.*

1.4 The committee with jurisdiction over this standard is not aware of any comparable standard published by other organizations.

## 2. Referenced Documents

### 2.1 ASTM Standards:

- C 717 Terminology of Building Seals and Sealants<sup>2</sup>
- D 2202 Test Method for Slump of Sealants<sup>2</sup>
- D 2203 Test Method for Staining from Sealants<sup>2</sup>
- D 2377 Test Method for Tack-Free Time of Caulking Compounds and Sealants<sup>2</sup>
- D 2450 Test Method for Bond of Oil- and Resin-Base Caulking Compounds<sup>2</sup>
- D 2452 Test Method for Extrudability of Oil- and Resin-Base Caulking Compounds<sup>2</sup>
- D 2453 Test Method for Shrinkage and Tenacity of Oil- and Resin-Base Caulking Compounds<sup>2</sup>

## 3. Terminology

3.1 *Definitions*—Refer to Terminology C 717 for definitions

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee C-24 on Building Seals and Sealants and is the direct responsibility of Subcommittee C24.12 on Oil and Resin Base Glazing and Caulking Sealants.

Current edition approved June 10, 2000. Published July 2000. Originally published as C 570 – 72. Last previous edition C 570 – 95.

<sup>2</sup> *Annual Book of ASTM Standards*, Vol 04.07.

of the following terms: caulking, caulking compound, compound.

## 4. Classification

4.1 The caulking compound shall be available in two types:

4.1.1 *Type I*, for use in hand- or power-operated caulking guns.

4.1.2 *Type II*, for application with a putty knife.

## 5. Materials and Manufacture

5.1 Caulking shall be composed of pigments and fillers compounded with drying oils and resins to conform to the requirements prescribed in this specification.

5.2 All material and workmanship shall be in accordance with good commercial practice. The producer is permitted a wide latitude in choice of raw materials for making these products. Consequently, there is no implication that the compounds are equivalent in all physical properties.

5.3 The manufacturing process shall be such as will ensure a homogeneous mix, free of defects that will affect serviceability, and of a consistency suitable for immediate application.

## 6. General Requirements

6.1 The compound in the original container shall be stable for at least 12 months from the time of delivery when stored at a temperature not exceeding 80°F (26.6°C).

6.2 Unless otherwise specified, the color shall be in the normal commercial range of colors such as white, natural, and gray.

6.3 The compound is intended for use only on clean dry surfaces.

## 7. Physical Requirements

7.1 The physical properties of the compound shall conform to the requirements specified in Table 1.

## 8. Sampling

8.1 The compound to be tested shall be selected at random from a single previously unopened commercial container, and shall be thoroughly mixed before withdrawing enough for the tests specified in Table 1. The sample shall be placed in an airtight glass or metal container immediately after it is collected. The size of this container shall be such that excessive air