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Standard Test Method for Tack-Free Time of Caulking Compounds and Sealants[1]

This standard is issued under the fixed designation D 2377; 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.

~~ε[1] NOTE—An editorial change was made in Section 1.1 in February 2000.~~

1. Scope

1.1 This test method describes the determination of the tack-free time property of caulking compounds and sealants. This test method is applicable to both gun and knife grades.

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 *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:* [2]

C 717 Terminology of Building Seals and Sealants

3. Terminology

3.1 *Definitions*—Refer to Terminology C 717 for definitions of the following terms: caulking compound, compound, sealant.

4. Apparatus

4.1 *Cabinet or Room* capable of maintaining a temperature of 73.4 ± 3.6°F (23 ± 2°C) at 50 ± 5 % relative humidity for extended periods of time.

4.2 *Brass Sheet*, ¾ by 1½ in. (19 by 38 mm), approximately ¼ in. (6.4 mm) thick.

4.3 *Template*—A rectangular template of steel or brass, ⅛ in. (3.2 mm) thick, 1 by 3¾ in. (25.4 by 95.1 mm) inside, and approximately 2 by 4¾ in. (51 by 121 mm) outside.

4.4 *Steel Sheets*—Two rectangular tin-plated steel sheets, approximately 3 by 5 in. (76 by 127 mm), and of a convenient thickness.

4.5 *Plastic Strips*—Two, clear, low-density polyethylene strips, 1 by 5 in. (25.4 by 127 mm) by 0.004 ± 0.001 in. (0.1016 ± 0.0254 mm) thick.

4.6 *Spatula*, steel, having a 4 to 5-in. (102 to 127-mm) long narrow blade.

4.7 *Thin Knife Blade*.

5. Solvent

5.1 *Methyl Ethyl Ketone, Ethylene Dichloride*, or similar solvent.

6. ~~Sampling~~

~~6.1Take the test specimen from a previously unopened container and thoroughly mix before using.~~ Conditioning

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~~[1] This test method 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.~~

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[1] This test method is under the jurisdiction of ASTM Committee C24 on Building Seals and Sealants and is the direct responsibility of Subcommittee C24.20 on General Test Methods.

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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* ~~, Vol 04.07~~:volume information, refer to the standard's Document Summary page on the ASTM website.

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