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Standard Specification for Solvent Release Sealants[1]

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1. Scope

1.1 This specification describes the properties of a one-component solvent release sealant for use in building construction. These sealants are generally formulated to withstand a maximum joint movement of 7.5 % in extension and 7.5 % in compression of the nominal joint width.

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

2. Referenced Documents

2.1 *ASTM Standards:*

C 661 Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer[2]
C 712 Test Method for Bubbling of One-Part, Elastomeric, Solvent-Release Type Sealants[2]
C 717 Terminology of Building Seals and Sealants[2]
C 1193 Guide for Use of Joint Sealants[2]
C 1216 Test Method for Adhesion and Cohesion of One-Part Elastomeric Solvent Release Sealants[2]
C 1257 Test Method for Accelerated Weathering of Solvent-Release-Type Sealants[2]
D 2202 Test Method for Slump of Sealants[2]
D 2203 Test Method for Staining from Sealants[2]
D 2377 Test Method for Tack-Free Time of Caulking Compounds and Sealants[2]
D 2452 Test Method for Extrudability of Oil- and Resin-Base Caulking Compounds[2]

3. Terminology

3.1 *Definitions*—Definitions of the following terms used in this specification are found in Terminology C 717: adhesive failure (adhesion loss), caulk (*v*), compound, durometer, hardness, joint, primer, seal, sealant, sealing material, and solvent release sealant.

4. Materials and Manufacture

4.1 The sealing compound shall be a solvent release material compounded to conform to the requirements prescribed in this specification.

4.2 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.

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

5. General Requirements

5.1 *Standard Conditions*—Perform all of the tests in a laboratory controlled at 23 ± 2°C (73 ± 3.6°F) and 50 ± 10 % relative humidity. Condition sealant samples for at least 5 h at these conditions before any tests are performed.

5.2 The sealant in the original container shall be suitable for use for at least 12 months from the date of manufacture when stored at a temperature neither below 5°C (41.0°F) nor exceeding 27°C (80.6°F).

5.3 The color of the sealant shall be as agreed upon between the purchaser and the manufacturer.

5.4 The sealant shall be intended for use only on clean, dry surfaces. When a primer is recommended by a manufacturer for a specific substrate, all tests on that substrate shall include the primer. The proper use of primers (or surface conditioners) with the application of sealants is described in detail in Guide C 1193. This guide also describes proper methods for joint design, backup materials, surface preparation, tooling of sealant, and other important procedures in sealant application in buildings.

6. Significance and Use

6.1 This specification describes solvent release sealants for general caulking and sealing operations in building construction. However, it should be recognized by the user that not all sealants meeting this specification are suitable for all applications and all substrates and that there is no implication that the sealants are equivalent in all physical properties.

[1] This specification is under the jurisdiction of ASTM Committee C24 on Building Seals and Sealants and is under the direct responsibility of Subcommittee C24.20 on General Sealant Standards.

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[2] *Annual Book of ASTM Standards*, Vol 04.07.