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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.

1.3 The committee with jurisdiction of this specification is not aware of any similar specification within ISO or any other organization.

2. Referenced Documents

2.1 *ASTM Standards:*[2]

C661 Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer

C712 Test Method for Bubbling of One-Part, Elastomeric, Solvent-Release Type Sealants

C717 Terminology of Building Seals and Sealants

C1193 Guide for Use of Joint Sealants

C1216 Test Method for Adhesion and Cohesion of One-Part Elastomeric Solvent Release Sealants

C1257 Test Method for Accelerated Weathering of Solvent-Release-Type Sealants

D2202 Test Method for Slump of Sealants

D2203 Test Method for Staining from Sealants

D2377 Test Method for Tack-Free Time of Caulking Compounds and Sealants

D2452 Test Method for Extrudability of Oil- and Resin-Base Caulking Compounds

3. Terminology

3.1 *Definitions*—Definitions of the following terms used in this specification are found in Terminology C717: 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 C1193. 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.

[1] This specification is under the jurisdiction of ASTM Committee C24 on Building Seals and Sealants and is under the direct responsibility of Subcommittee C24.10 on Specifications, Guides and Practices.

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