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Standard Specification for Butyl Rubber-Based Solvent-Release Sealants¹

This standard is issued under the fixed designation C 1085; 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.

1. Scope

1.1 This specification describes the properties of single-component, butyl rubber-based solvent-release type sealants for use in building construction.

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

1.3 *This standard does not purport to address all of the safety problems, 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.*

2. Referenced Documents

2.1 ASTM Standards:

- C 711 Test Method for Low-Temperature Flexibility and Tenacity of One-Part, Elastomeric, Solvent-Release Type Sealants²
- C 712 Test Method for Bubbling of One-Part, Elastomeric, Solvent-Release Type Sealants²
- C 717 Terminology of Building Seals and Sealants²
- C 718 Test Method for Ultraviolet (UV)-Cold Box Exposure of One-Part, Elastomeric, Solvent-Release Type Sealants²
- C 804 Practices for Use of Solvent-Release Type Sealants²
- C 910 Test Method for Bond and Cohesion of One-Part Elastomeric, Solvent Release-Type Sealants²
- D 2202 Test Method for Slump of Sealants²
- D 2203 Test Method for Staining from Sealants²
- D 2377 Test Method for Tack-Free Time of Caulking Compounds and Sealants²
- D 2452 Test Method for Extrudability of Oil- and Resin-Base Caulking Compounds²
- D 2453 Test Method for Shrinkage and Tenacity of Oil- and Resin-Base Caulking Compounds²

3. Terminology

3.1 Definitions for, the following terms used in this specification can be found in Terminology C 717; adhesive failure, adhesion loss, caulking compound, compound, elastometric, sealant, and solvent-release compound.

4. Significance and Use

4.1 This specification assists in selecting butyl rubber-

based solvent-release sealants meeting certain minimum standards of performance for use in building construction.

4.2 Not all sealants meeting this specification should be presumed equivalent or suitable for all applications and all substrates.

5. Material and Manufacture

5.1 The sealant shall be composed of elastomeric or thermoplastic polymers, or both, compounded with the appropriate resins, fillers, pigments, solvents, and chemical additives necessary 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 wide latitude in choice of raw materials for making these products. Consequently, there is no implication by conformance to this specification that various sealants are equivalent in 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 sealant in the original unopened container when stored at a temperature not exceeding 26.6°C (80°F) shall be capable of meeting the requirements of this specification within the recommended shelf life of the manufacturer.

6.2 Unless otherwise specified, the color of the sealant shall be that color which has been agreed upon between the purchaser and the supplier.

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

7. Performance Requirements

7.1 The performance properties of the sealant shall conform to the requirements specified in Table 1.

8. Sampling

8.1 The sealant to be tested for conformance with the requirements of this specification shall be taken directly from randomly selected commercial containers as supplied by the manufacturer.

9. Test Methods

9.1 Perform the following tests in an environment controlled at $23 \pm 2^\circ\text{C}$ ($73.4 \pm 3.6^\circ\text{F}$) and $50 \pm 10\%$ relative humidity. The sealant sample shall remain in the unopened container at these conditions for a minimum of 24 h before testing.

¹ This specification is under the jurisdiction of ASTM Committee C-24 on Building Seals and Sealants and is the direct responsibility of Subcommittee C24.18 on Solvent Release Sealants.

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² Annual Book of ASTM Standards, Vol 04.07.