



Standard Guide for Use of Joint Sealants¹

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1. Scope

1.1 This guide describes the use of a cold liquid-applied sealant for joint sealing applications. Including joints on buildings and related adjacent areas, such as plazas, decks, and pavements for vehicular or pedestrian use, and types of construction other than highways and airfield pavements and bridges. Information in this guide is primarily applicable to a single and multi-component, cold liquid-applied joint sealant and secondarily to a precured sealant when used with a properly prepared joint opening and substrate surfaces.

1.2 An elastomeric or non-elastomeric sealant described by this guide should meet the requirements of Specification C 834, C 920, or C 1311.

1.3 This guide does not provide information or guidelines for the use of a sealant in a structural sealant glazing application. Guide C 1401 should be consulted for this information. Additionally, it also does not provide information or guidelines for the use of a sealant in an insulating glass unit edge seal used in a structural sealant glazing application. Guide C 1249 should be consulted for this information.

1.4 Practice C 919 should be consulted for information and guidelines for the use of a sealant in an application where an acoustic joint seal is required.

1.5 This guide also does not provide information relative to the numerous types of sealant that are available nor specific generic sealant properties, such as hardness, tack-free time, or curing process, among others. Guide C 1299 should be consulted for information on generally accepted comparative values for the characteristics and properties of the more common generic types of liquid-applied sealant.

1.6 The values stated in SI units are to be regarded as the standard. The values given in parenthesis are provided for information only.

1.7 The Committee with jurisdiction for this standard is not aware of any comparable standards published by other organizations.

1.8 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.

2. Referenced Documents

2.1 ASTM Standards:

- C 510 Test Method for Staining and Color Change of Single- or Multicomponent Joint Sealants
- C 717 Terminology of Building Seals and Sealants
- C 719 Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle)
- C 792 Test Method for Effects of Heat Aging on Weight Loss, Cracking and Chalking of Elastomeric Sealants
- C 794 Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants
- C 834 Specification for Latex Sealants
- C 919 Practice for Use of Sealants in Acoustical Applications
- C 920 Specification for Elastomeric Joint Sealants
- C 1083 Test Method for Water Absorption of Cellular Elastomeric Gaskets and Sealing Materials
- C 1087 Test Method for Determining Compatibility of Liquid-Applied Sealants with Accessories Used in Structural Glazing Systems
- C 1135 Test Method for Determining Adhesion Properties of Structural sealants
- C 1247 Test Method for Durability of Sealants Exposed to Continuous Immersion in Liquids
- C 1248 Test Method for Staining of Porous Substrate by Joint Sealants
- C 1249 Guide for Secondary Seal for Sealed Insulating Glass Units for Structural Sealant Glazing applications
- C 1253 Test Method for Determining the Outgassing Potential of Sealant backing
- C 1299 Guide for Use in Selection of Liquid-Applied Sealants
- C 1311 Specification for Solvent Release Sealants
- C 1330 Specification for Cylindrical Sealant Backing for Use with Cold Liquid-Applied Sealants

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