



Designation: D8397 – 23

Standard Specification for Acrylic and Reactive Adhesives for Installation of Vinyl and Rubber Floor Coverings¹

This standard is issued under the fixed designation D8397; 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 establishes minimum requirements for adhesives used for the installation of resilient floor coverings, within a climate-controlled structure, when adhered directly and permanently to a structurally sound and recommended substrate.

1.2 This specification will provide the means to determine adhesive bonding as a result of different resilient flooring backing systems used with PVC and rubber flooring materials.

1.3 Adhesives referenced in this specification may also be used for installation of carpets outlined in Specification D7799. Test methods and practices referenced in this specification will provide the means to determine adhesive bonding for PVC backed carpet types, whether classified as broadloom or tile.

1.4 The values stated in SI units are to be regarded as standard. The values given in parentheses after SI units are provided for information only and are not considered standard.

1.5 *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.6 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

D907 Terminology of Adhesives

D1084 Test Methods for Viscosity of Adhesives

D1337 Practice for Storage Life of Adhesives by Viscosity and Bond Strength

D2556 Test Method for Apparent Viscosity of Adhesives Having Shear-Rate-Dependent Flow Properties Using Rotational Viscometry

D4783 Test Methods for Resistance of Adhesive Preparations in Container to Attack by Bacteria, Yeast, and Fungi

D6004 Test Method for Determining Adhesive Shear Strength of Resilient Flooring and Carpet Adhesives

D6862 Test Method for 90 Degree Peel Resistance of Adhesives

D6962 Practice for Operation of a Roller Chair Tester for Pile Yarn Floor Coverings

D7149 Practice for Determining the Freeze Thaw Stability of Adhesives

D7799 Specification for Tufted and Woven Broadloom Carpet Adhesives Without Homogenous PVC or Non-PVC Backings

D7888 Practice for Evaluating Adhesive and the Effects of Plasticizer Found Within Polyvinyl Chloride-Backed Floor Coverings

F2199 Test Method for Determining Dimensional Stability and Curling Properties of Resilient Flooring after Exposure to Heat

2.2 Other Standards:

California Specification 01350 Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1³

ISO 4918 Resilient, textile and laminate floor coverings — Castor chair test⁴

OSHA Regulations 29 CFR 1910.1200 Hazard communication⁵

SCAQMD 1168 Adhesive and Sealant Applications⁶

¹ This specification is under the jurisdiction of ASTM Committee D14 on Adhesives and is the direct responsibility of Subcommittee D14.10 on Working Properties.

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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.

³ Available from CalRecycle, <http://calrecycle.ca.gov>.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

⁵ Available from Occupational Safety and Health Administration (OSHA), 200 Constitution Ave., NW, Washington, DC 20210, <http://www.osha.gov>.

⁶ Available from South Coast Air Quality Management District, 21865 Copley Dr, Diamond Bar, CA 91765, <http://www.aqmd.gov>.