



Standard Practice for Encapsulation Testing of Friable Asbestos-Containing Surfacing Materials¹

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1. Scope

1.1 This practice covers encapsulants intended to reduce or eliminate the release of asbestos fibers from a matrix of friable spray- or trowel-applied asbestos-containing surfacing material.

1.2 This practice includes a series of determinations to be conducted in the field on asbestos abatement projects for which encapsulation is being considered or has been performed.

1.3 This practice is to be used to determine the appropriateness of encapsulation as an abatement measure in accordance with Practice E1368, as part of a Project Design Survey in accordance with Practice E2356, and to demonstrate completeness of abatement in accordance with Practice E1368. Performance of the encapsulated surfacing material for other purposes is not within the scope of this practice. Use Test Methods E84, E119, and E605 to determine other properties of the material.

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

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

1.6 **Warning**—Asbestos fibers are acknowledged carcinogens. Breathing asbestos fibers can result in disease of the lungs including asbestosis, lung cancer, and mesothelioma.² Precautions in this standard practice should be taken to avoid creating and breathing airborne particles from materials known or suspected to contain asbestos. See 2.3 for regulatory requirements addressing asbestos.

¹ This practice is under the jurisdiction of ASTM D22 on Air Quality and is the direct responsibility of Subcommittee D22.07 on Sampling and Analysis of Asbestos.

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² “Elimination of Asbestos-Related Diseases,” World Health Organization, September 2006.

2. Referenced Documents

2.1 ASTM Standards:³

E84 Test Method for Surface Burning Characteristics of Building Materials

E119 Test Methods for Fire Tests of Building Construction and Materials

E605 Test Methods for Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members

E631 Terminology of Building Constructions

E736 Test Method for Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members

E1368 Practice for Visual Inspection of Asbestos Abatement Projects

E2356 Practice for Comprehensive Building Asbestos Surveys

2.2 Other Standards:

1-GP-205M2003 Sealer for Application to Asbestos-Fiber Releasing Materials⁴

2.3 EPA and OSHA Regulations:

40 CFR Part 763 Subpart E, Appendix C (Model Accreditation Plan) Environmental Protection Agency, February 3, 1994⁵

29 CFR 1926.1101 Occupational Exposure to Asbestos (Construction Industry Standard), Occupational Safety and Health Administration, August 10, 1994⁶

3. Terminology

3.1 **Definitions**—For definitions of building terms, refer to Terminology E631.

3.2 *Definitions of Terms Specific to This Standard:*

³ 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.

⁴ Available from Canadian General Standards Board (CGSB), Place du Portage III, 6B1 11 Laurier Street Gatineau, Quebec K1A 1G6 Canada, <http://www.tpsgc-pwgsc.gc.ca/cgsb>.

⁵ Available from United States Environmental Protection Agency (EPA), Ariel Rios Bldg., 1200 Pennsylvania Ave., NW, Washington, DC 20460, <http://www.epa.gov>.

⁶ Available from Occupational Safety and Health Administration (OSHA), 200 Constitution Ave., NW, Washington, DC 20210, <http://www.osha.gov>.