



# Standard Guide for Selection and Use of Liquid Coating Encapsulation Products for Leaded Paint in Buildings<sup>1</sup>

This standard is issued under the fixed designation E1796; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This guide is intended to provide building users such as private building owners, contractors, architects, homeowners, and regulatory authorities with assistance in selecting an appropriate liquid coating encapsulation product for architectural residence and child-care facility use situations for abating leaded paint. This guide also provides information that can be used to assist in the following: (1) determining whether a painted surface is suitable for encapsulation, (2) applying a liquid coating encapsulation product, (3) evaluating installed liquid coating encapsulation products, and (4) maintaining the encapsulated surface.

1.2 This guide applies to any liquid-applied product that relies primarily on adhesion for attachment to the surface and is designed to reduce human exposure to lead in paint.

1.3 This guide is not intended for use as a training manual. The information contained herein is not all-inclusive and does not provide comprehensive instructions for the selection, application, or maintenance of specific liquid coating encapsulation products. This guide is intended to supplement information supplied by encapsulation product manufacturers and safety requirements established by law. The user of this guide shall refer to the encapsulation product manufacturer's instructions for encapsulation product application and maintenance.

1.4 This guide does not cover minimum material performance requirements for liquid coating encapsulation products. Performance specifications for non-reinforced liquid coating encapsulation products are provided in Specification E1795. Performance specifications for reinforced liquid coating encapsulation products are provided in Specification E1797.

1.5 Encapsulation products for use on industrial steel structures are not covered in this guide. Industrial steel structures include, but are not limited to, bridges, water towers, and tanks.

1.6 Limited documentation is available on evaluating the field performance of liquid coating encapsulation products. A

conservative approach to assessing the selection and use of liquid coating encapsulation products is thus adopted in this guide. As appropriate, the guidance provided within will be revised as additional knowledge regarding how these products perform over time is gained.

1.7 The user of this guide should follow all regulations promulgated by authorities having jurisdiction regarding the use of encapsulation products.

1.8 The values stated in SI units are to be regarded as the standard. The values given in parentheses are mathematical conversions to inch-pound units that are provided for information only and are not considered standard.

1.9 *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:<sup>2</sup>

- D16 Terminology for Paint, Related Coatings, Materials, and Applications
- D1005 Test Method for Measurement of Dry-Film Thickness of Organic Coatings Using Micrometers
- D1212 Test Methods for Measurement of Wet Film Thickness of Organic Coatings
- D3359 Test Methods for Measuring Adhesion by Tape Test
- D4214 Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films
- D5064 Practice for Conducting a Patch Test to Assess Coating Compatibility
- E1605 Terminology Relating to Lead in Buildings
- E1795 Specification for Non-Reinforced Liquid Coating Encapsulation Products for Leaded Paint in Buildings
- E1797 Specification for Reinforced Liquid Coating Encapsulation Products for Leaded Paint in Buildings

<sup>1</sup> This guide is under the jurisdiction of ASTM Committee E06 on Performance of Buildings and is the direct responsibility of Subcommittee E06.23 on Lead Hazards Associated with Buildings.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.