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AMERICAN SOCIETY FOR TESTING AND MATERIALS
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Standard Guide for Testing Exterior Latex House Paints¹

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1. Scope

1.1 This guide covers the selection and use of procedures for testing latex house paints and trim paints intended for use on the exterior of buildings. The test methods included are listed in Tables 1 and 2. All of these may not be required for each paint. Selection of the test methods to be followed must be governed by experience and the requirements in each individual case, together with agreement between purchaser and seller.

1.2 The latex paints covered by this guide are intended for application by brushing, rolling, spraying, or other means, on masonry, wood, and previously painted surfaces.

1.3 *This standard does not purport to address 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:

- D 16 Terminology Relating to Paint, Varnish, Lacquer, and Related Products²
- D 185 Test Methods for Coarse Particles in Pigments, Pastes, and Paints³
- D 215 Methods of Chemical Analysis of White Linseed Oil Paints³
- D 344 Test Method for Relative Hiding Power of Paints by the Visual Evaluation of Brushouts³
- D 358 Specification for Wood to Be Used as Panels in Weathering Tests of Coatings³
- D 522 Test Method for Mandrel Bend Test of Attached Organic Coatings³
- D 523 Test Method for Specular Gloss²
- D 562 Test Method for Consistency of Paints Using the Stormer Viscometer³
- D 660 Test Method for Evaluating Degree of Checking of Exterior Paints³
- D 661 Test Method for Evaluating Degree of Cracking of Exterior Paints³
- D 662 Test Method for Evaluating Degree of Erosion of Exterior Paints³
- D 772 Test Method for Evaluating Degree of Flaking (Scaling) of Exterior Paints³

D 823 Test Methods for Producing Films of Uniform Thickness of Paint, Varnish, and Related Products on Test Panels³

D 1006 Practice for Conducting Exterior Exposure Tests of Paints on Wood³

D 1038 Definitions of Terms Relating to Veneer and Plywood⁴

D 1210 Test Method for Fineness of Dispersion of Pigment-Vehicle Systems³

D 1475 Test Method for Density of Paint, Varnish, Lacquer, and Related Products³

D 1554 Definitions of Terms Relating to Wood-Base Fiber and Particle Panel Materials⁴

D 1640 Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature³

D 1729 Practice for Visual Evaluation of Color Differences of Opaque Materials⁵

D 1736 Test Method for Efflorescence of Interior Wall Paints³

D 2196 Test Methods for Rheological Properties of Non-Newtonian Materials by Rotational (Brookfield) Viscometer³

D 2243 Test Method for Freeze-Thaw Resistance of Water-Borne Paints³

D 2244 Test Method for Calculation of Color Differences From Instrumentally Measured Color Coordinates³

D 2369 Test Method for Volatile Content of Coatings³

D 2574 Test Method for Resistance of Emulsion Paints in the Container to Attack by Microorganisms³

D 2805 Test Method for Hiding Power of Paints by Reflectometry³

D 3456 Practice for Determining by Exterior Exposure Tests the Susceptibility of Paint Films to Microbiological Attack³

D 3719 Test Method for Quantifying Dirt Collection on Coated Exterior Panels³

D 3925 Practice for Sampling Liquid Paints and Related Pigmented Coatings³

D 3928 Test Method for Evaluation of Gloss or Sheen Uniformity³

D 4214 Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films³

D 4287 Test Method for High-Shear Viscosity Using the ICI Cone/Plate Viscometer³

D 4585 Practice for Testing Water Resistance of Coatings Using Controlled Condensation³

¹ This guide is under the jurisdiction of ASTM Committee D-1 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D 01.42 on Architectural Finishes.

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² Annual Book of ASTM Standards, Vols 06.01, 06.02, and 06.03.

³ Annual Book of ASTM Standards, Vol 06.01.

⁴ Annual Book of ASTM Standards, Vol 04.09.

⁵ Annual Book of ASTM Standards, Vol 14.02.