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Standard Guide for Testing Interior Solvent-Reducible Flat Wall Paints¹

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This standard has been approved for use by agencies of the Department of Defense. Consult the DoD Index of Specifications and Standards for the specific year of issue which has been adopted by the Department of Defense.

¹ NOTE—Editorial changes were made throughout, including the title, in October 1988.

1. Scope

1.1 This guide covers the selection and use of procedures for testing interior solvent-reducible flat wall paints, such as alkyd or other solvent-thinned finishes. The test methods included are listed in Tables 1 and 2. All of these test methods may not be required for each paint. Selection of the test methods must be governed by experience and the requirements in each individual case, together with agreement between the purchaser and seller.

1.2 This guide covers the testing of ready-mixed finish coats for application by brushing, roller coating, spraying, or other methods, on wood, plaster, wallboard, masonry, previously painted surfaces, and other interior architectural surfaces.

2. Referenced Documents

2.1 ASTM Standards:

- D 16 Definitions of Terms Relating to Paint, Varnish, Lacquer, and Related Products²
- D 93 Test Methods for Flash Point by Pensky-Martens Closed Tester³
- D 154 Guide for Testing Varnishes⁴
- D 185 Test Methods for Coarse Particles in Pigments, Pastes, and Paints⁵
- D 344 Test Method for Relative Hiding Power of Paints by the Visual Evaluation of Brushouts⁴
- D 522 Test Method for Mandrel Bend Test of Attached Coatings⁴
- D 523 Test Method for Specular Gloss⁴
- D 562 Test Method for Consistency of Paints Using the Stormer Viscometer⁴
- D 823 Test Methods for Producing Films of Uniform Thickness of Paint, Varnish, and Related Products on Test Panels⁴
- D 1208 Test Methods for Common Properties of Certain Pigments⁶

- D 1210 Test Method for Fineness of Dispersion of Pigment-Vehicle Systems⁴
- D 1310 Test Method for Flash Point and Fire Point of Liquids by Tag Open-Cup Apparatus³
- D 1475 Test Method for Density of Paint, Varnish, Lacquer, and Related Products⁴
- D 1554 Definitions of Terms Relating to Wood-Base Fiber and Particle Panel Materials⁷
- D 1640 Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature⁴
- D 1729 Practice for Visual Evaluation of Color Differences of Opaque Materials⁴
- D 1737 Test Method for Elongation of Attached Organic Coatings with Cylindrical Mandrel Apparatus⁸
- D 2196 Test Methods for Rheological Properties of Non-Newtonian Materials by Rotational (Brookfield) Viscometer⁴
- D 2197 Test Methods for Adhesion of Organic Coatings by Scrape Adhesion⁴
- D 2244 Method for Calculation of Color Differences From Instrumentally Measured Color Coordinates⁴
- D 2369 Test Method for Volatile Content of Coatings⁴
- D 2371 Test Method for Pigment Content of Solvent-Reducible Paints⁴
- D 2372 Method of Separation of Vehicle from Solvent-Reducible Paints⁴
- D 2486 Test Method for Scrub Resistance of Interior Latex Flat Wall Paints⁴
- D 2621 Method for Infrared Identification of Vehicle Solids from Solvent-Reducible Paints⁴
- D 2801 Test Method for Leveling Characteristics of Paints by Draw-Down Method⁴
- D 2805 Test Method for Hiding Power of Paints by Reflectometry⁴
- D 3278 Test Methods for Flash Point of Liquids by Setaflash Closed-Cup Apparatus³
- E 105 Recommended Practice for Probability Sampling of Materials⁹
- E 313 Test Method for Indexes of Whiteness and Yellowness of Near-White Opaque Materials⁹

¹ This practice is under the jurisdiction of ASTM Committee D-1 on Paint and Related Coatings and is the direct responsibility of Subcommittee D01.42 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 06.03.

⁴ Annual Book of ASTM Standards, Vol 06.01.

⁵ Annual Book of ASTM Standards, Vols 06.01 and 06.02.

⁶ Annual Book of ASTM Standards, Vol 06.02.

⁷ Annual Book of ASTM Standards, Vol 04.09.

⁸ Discontinued; see 1988 Annual Book of ASTM Standards, Vol 06.01.

⁹ Annual Book of ASTM Standards, Vol 14.02.