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Designation: D 3358 – 88

AMERICAN SOCIETY FOR TESTING AND MATERIALS
1916 Race St., Philadelphia, Pa. 19103
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Standard Guide for Testing Water-Borne Floor Paints¹

This standard is issued under the fixed designation D 3358; 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.

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 approved for use by the Department of Defense.

1. Scope

1.1 This guide covers the selection and use of procedures for testing water-borne floor paints. The test methods included are listed in Tables 1 and 2.

NOTE—Where no ASTM test method exists or there is a comparable (but not necessarily identical) method in Federal Test Method Standard, No. 141, the Federal Method number is listed. However, the Federal Method shall not be considered approved by ASTM.

1.2 The guide covers the testing of ready-mixed finish coats applied by brush or roller on surfaces subjected to traffic, such as floors, decks, platforms, stairs, and adjacent surfaces such as stair risers and railings.

1.3 Floor paints may be intended for interior use only or may also be suitable for use on exterior surfaces exposed to the weather, such as decks, porches, porch steps, and carport floors. Paints intended for both exterior and interior use require certain test procedures not applicable to paints intended for interior use only. Selection of test methods must be governed by the requirements in each individual case, together with agreement between the purchaser and the seller.

2. Referenced Documents

2.1 ASTM Standards:

- D 16 Definitions of Terms 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 Paints⁴
- D 344 Test Method for Relative Hiding Power of Paints by the Visual Evaluation of Brushouts⁴
- D 358 Specification for Wood to Be Used as Panels in Weathering Tests⁴
- D 522 Test Method for Elongation of Attached Organic Coatings with Conical Mandrel Apparatus⁴
- D 523 Test Method for Specular Gloss⁴
- D 562 Test Method for Consistency of Paints Using the Stormer Viscometer⁴
- D 658 Test Method for Abrasion Resistance of Organic Coatings by Air Blast Abrasive⁴

- D 659 Test Methods for Evaluating Degree of Chalking of Exterior Paints⁴
- D 660 Test Methods for Evaluating Degree of Checking of Exterior Paints⁴
- D 661 Test Method for Evaluating Degree of Cracking of Exterior Paints⁴
- D 662 Test Method for Evaluating Degree of Erosion of Exterior Paints⁴
- D 772 Test Method for Evaluating Degree of Flaking (Scaling) of Exterior Paints⁴
- D 823 Test Methods for Producing Films of Uniform Thickness of Paint, Varnish, and Related Products on Test Panels⁴
- D 968 Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive⁴
- D 1006 Practice for Conducting Exterior Exposure Tests of Paints on Wood⁴
- D 1210 Test Method for Fineness of Dispersion of Pigment Vehicle Systems⁴
- D 1308 Test Method for Effect of Household Chemical on Clear and Pigmented Organic Finishes⁴
- D 1475 Test Method for Density of Paint, Varnish, Lacquer, and Related Products⁴
- 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 Material⁴
- D 1737 Test Method for Elongation of Attached Organic Coatings with Cylindrical Mandrel Apparatus⁴
- D 1848 Classification for Reporting Paint Film Failures Characteristic of Exterior Latex Paints⁴
- D 1849 Test Method for Package Stability of Paint⁴
- D 2197 Test Method for Adhesion of Organic Coatings by Scrape Adhesion⁴
- D 2243 Test Method for Freeze-Thaw Resistance of Latex and Emulsion⁴
- D 2244 Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates⁴
- D 2369 Test Method for Volatile Content of Coatings⁴
- D 2574 Test Method for Resistance of Emulsion Paints in the Container to Attack by Microorganisms⁴
- D 2805 Test Method for Hiding Power of Paints by Reflectometry⁴
- D 4062 Test Method for Leveling of Paints by Draw-Down Method⁴

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

Current edition approved March 25, 1988. Published May 1988. Originally published as D 3358 – 74. Last previous edition D 3358 – 79.

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

³ Annual Book of ASTM Standards, Vols 06.01 and 06.02.

⁴ Annual Book of ASTM Standards, Vol 06.01.