



Standard Guide for Testing Exterior Wood Stains and Clear Water Repellents¹

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1. Scope

1.1 This guide covers the selection and use of procedures for testing exterior wood stains and clear water repellents. This includes both water borne and solvent borne semitransparent and opaque stains and clear water repellents. The properties that can be examined or, in some cases, the relevant test procedures are listed in 2.1 and 2.2.

NOTE 1—The term “opaque stain” is defined as a pigmented composition intended for use on wooden surfaces to produce a uniform finish that obscures the grain and color of the wood, but not its surface texture; also called solid color or solid hide.

NOTE 2—The term “semitransparent” is defined as a pigmented composition intended for use on wooden surfaces to produce a uniform finish that does not fully obscure the grain or the texture of the wood.

NOTE 3—The term “clear” is defined as a transparent composition intended for use on wooden surfaces to produce a uniform finish that does not obscure the grain or texture of the wood.

1.1.1 *Discussion*—When applied to woods that differ in color, there is a color difference between stained substrates.

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

1.3 *This standard may involve hazardous materials, operations, and equipment. 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 requirements prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

D16 Terminology for Paint, Related Coatings, Materials, and Applications

¹ This guide is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.42 on Architectural Coatings.

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² 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.

D56 Test Method for Flash Point by Tag Closed Cup Tester
D93 Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
D154 Guide for Testing Varnishes
D185 Test Methods for Coarse Particles in Pigments
D215 Practice for the Chemical Analysis of White Linseed Oil Paints (Withdrawn 2005)³
D344 Test Method for Relative Hiding Power of Paints by the Visual Evaluation of Brushouts
D358 Specification for Wood to Be Used as Panels in Weathering Tests of Coatings (Withdrawn 2014)³
D522 Test Methods for Mandrel Bend Test of Attached Organic Coatings
D523 Test Method for Specular Gloss
D562 Test Method for Consistency of Paints Measuring Krebs Unit (KU) Viscosity Using a Stormer-Type Viscometer
D660 Test Method for Evaluating Degree of Checking of Exterior Paints
D661 Test Method for Evaluating Degree of Cracking of Exterior Paints
D662 Test Method for Evaluating Degree of Erosion of Exterior Paints
D714 Test Method for Evaluating Degree of Blistering of Paints
D772 Test Method for Evaluating Degree of Flaking (Scaling) of Exterior Paints
D869 Test Method for Evaluating Degree of Settling of Paint
D968 Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive
D1006 Practice for Conducting Exterior Exposure Tests of Paints on Wood
D1038 Terminology Relating to Veneer and Plywood
D1210 Test Method for Fineness of Dispersion of Pigment-Vehicle Systems by Hegman-Type Gage
D1296 Test Method for Odor of Volatile Solvents and Diluents
D1475 Test Method For Density of Liquid Coatings, Inks, and Related Products
D1554 Terminology Relating to Wood-Base Fiber and Particle Panel Materials

³ The last approved version of this historical standard is referenced on www.astm.org.