



Standard Practice for Quality Control Receipt Inspection Procedures for Protective Coatings (Paint), Used in Marine Construction and Shipbuilding¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This practice provides the quality control receipt inspection procedures for protective coatings (paints) procured for end item use on ships and other marine structures. The practice includes methods and procedures for verifying that coating materials received are within the range of physical and chemical characteristics as those originally specified and tested.

1.2 *This standard does not purport to address the safety problems associated with its use. It is the responsibility of the user of this standard to consult and establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

- D 185 Test Methods for Coarse Particles in Pigments, Pastes, and Paints²
- D 523 Test Method for Specular Gloss³
- D 562 Test Method for Consistency of Paints Using the Stormer Viscometer³
- D 1200 Test Method for Viscosity by Ford Viscosity Cup³
- D 1210 Test Method for Fineness of Dispersion of Pigment-Vehicle Systems³
- D 1308 Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes⁴
- D 1309 Test Method for Settling Properties of Traffic Paints During Accelerated Storage⁴
- D 1475 Test Method for Density of Paint, Varnish, Lacquer, and Related Products³
- D 1640 Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature²

D 1729 Practice for Visual Evaluation of Color Differences of Opaque Materials³

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

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

D 2369 Test Method for Volatile Content of Coatings³

D 2621 Test Method for Infrared Identification of Vehicle Solids From Solvent-Reducible Paints³

D 2697 Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings³

D 2698 Test Method for Determination of the Pigment Content of Solvent-Reducible Paints by High-Speed Centrifuging³

D 2805 Test Method for Hiding Power of Paints by Reflectometry³

D 2832 Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings³

D 3278 Test Methods for Flash Point of Liquids by Set-Aflash Closed-Cup Apparatus³

D 3925 Practice for Sampling Liquid Paints and Related Pigmented Coatings³

3. Terminology

3.1 *batch*—a manufacturing run. The industrial unit or quantity of production made in one complete operation. The volume or mass that constitutes a batch is flexible and varies with the size of the plant and its facilities for converting the raw materials into the finished product.

4. Summary of Practice

4.1 Test requirements for identifying characteristics (physical and chemical) of marine coatings are established. Receipt inspection tests are provided to assure that procured paints do not differ significantly from the paints initially evaluated.

¹ This practice is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F 25.01 on Structures.

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² *Annual Book of ASTM Standards*, Vol 06.03.

³ *Annual Book of ASTM Standards*, Vol 06.01.

⁴ *Annual Book of ASTM Standards*, Vol 06.02.