



Standard Specification for Shipbuilders and Marine Paints and Coatings Product/ Procedure Data Sheet¹

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

1. Scope

1.1 The Shipbuilders and Marine Paints and Coatings Product/Procedure Data Sheet² provides on one sheet needed information concerning the characteristics of a specific paint or coating to include generic description, physical properties, surface preparation requirements, application requirements, and safety. The front side of the sheet contains four major, numbered paragraphs and a highlighted section for *Special Safety Precautions*. These paragraphs are as follows:

- I. Generic Type and Description
- II. Manufacturers Data
- III. Properties
- IV. Surface Preparation Minimum Requirements

The back side of the page contains the following paragraphs:

- V. Mixing Procedure
- VI. Application

1.2 The completed data sheets can be used by technical personnel to help evaluate the technical acceptability of a proposed material, by production personnel to evaluate production compatibility of proposed materials and to provide application instructions for selected paints and coatings materials, and by quality control personnel to verify attributes of materials.

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:³

- D56 Test Method for Flash Point by Tag Closed Cup Tester
- D93 Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
- D523 Test Method for Specular Gloss
- D1475 Test Method for Density of Liquid Coatings, Inks, and Related Products
- D1640 Test Methods for Drying, Curing, or Film Formation of Organic Coatings
- ~~D1650 Test Methods for Sampling and Testing Shellac Varnish (Withdrawn 1997)~~⁴

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² Available from ASTM International Headquarters. Order Adjunct No. ADJF0718. Original adjunct produced in 1993.

³ 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.

D2697 Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings
 D3278 Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus

2.2 *ASTM Adjunct:*

Shipbuilder's and Marine Paints and Coatings Product/Procedure Data Sheets²

2.3 *U.S. EPA Method:*⁴

24 U.S. Environmental Protection Agency, 40 CFR Ch. 1, Part 60, Appendix A, Determination of Volatile Matter Content, Density, Volume Solids, and Weight Solids of Surface Coatings

3. Instructions for Completing Data Sheet

3.1 When filling out the Product/Procedure Data Sheet (see **Figs. 1 and 2**) remember that the information contained therein will be utilized by both technical and production personnel. Keep it simple and brief but complete. The following instructions are organized by paragraph numbers contained within the data sheet.

3.2 *Paragraph I—Generic Type and Description* —Use only known and industry-accepted generic descriptions. Also, list any specification specific terminology (for example, MIL-PRF-23236 Type I, Class 2, etc.). See **Fig. 1**.

3.3 *Paragraph II—Manufacturers Data*—This section is self-explanatory with the possible exception of subparagraph (f). This can be as complete or as brief as the concerned parties desire. For example, a separate attached list of compatible and incompatible topcoats or acceptable cargo exposures could be included. See **Fig. 1**.

3.4 *Paragraph III—Properties*—This section is also self-explanatory with the following exceptions:

3.4.1 *Subparagraph (a)*—If agreed upon by the concerned parties, a different method for determining volume solids (theoretical coverage) may be substituted. The form should be amended to show method.

3.4.2 *Subparagraph (e)*—If the specification requires an edge-retentive paint to be used, the % edge retention and test method used should be listed.

3.4.3 *Subparagraph (g)*—Use an agreed upon standard for viscosity (for example, ASTM, etc.). Also, for two part coatings, state whether the requirement is for each individual component, the mixed coating, or all three.

3.4.4 *Subparagraph (n)*—any special properties (for example, stain resistance, low temperature cure, etc.) should be listed, and any specific differences in handling, application or maintenance procedures to maintain that property should be listed. See **Fig. 1**.

3.5 *Paragraph IV—Surface Preparation Minimum Requirements:*

3.5.1 *Subparagraphs (a) and (b)*—Use an agreed-upon standard for example, ASTM, SSPC, Swedish, NACE, SNAME, etc. See **Fig. 1**.

3.5.2 *Subparagraph (c)*—Surface profile data is required. The profile listed must be given as a range for the average of all profile measurements. The method of measurement must be agreed upon by all parties concerned.

3.5.3 *Subparagraph (d)*—Any specific requirements for, or prohibitions on, the type of abrasives that can be used shall be entered in subparagraph (d), Special Instructions. See **Fig. 1**.

3.5.4 *Subparagraph (f) and (g)*—List commercial industry standard(s), or test method(s), or both, for conductivity and flash rust.

3.6 *Special Safety Precautions*—This section should contain specific instructions of what to do in the event of skin or eye contact or accidental ingestion, or both. Reference should also be made to the appropriate manufacturer's Material Safety Data Sheet. See **Fig. 1**.

3.7 *Paragraph V—Mixing Procedure*—This section is self-explanatory with the possible exceptions of subparagraphs (c) and (f). Subparagraph (c) should preferably contain a generic solvent as opposed to a proprietary one. Subparagraph (f) should, as a

⁴ Available from U.S. Government Printing Office, Superintendent of Documents, 732 N. Capitol St., NW, Washington, DC 20401-0001, <http://www.access.gpo.gov>.

