

SSPC: The Society for Protective Coatings

SSPC-PA 1

SHOP, FIELD, AND MAINTENANCE COATING OF METALS

1. SCOPE

1.1 This standard provides basic requirements for best practices for application of industrial/marine protective coatings to coated or uncoated metallic substrates, and is intended for use by both specifiers and contractors, either in its entirety or by referencing specific sections. It focuses on the coating application process and application-related items that are included as one element of the contractor's work plan or process control procedures. The scope of this standard includes specific as well as general requirements for the application of liquid coatings applied by brush, spray, or roller. Detailed descriptions of site preparation, surface preparation, pretreatments, or selection of primers and finish coats are beyond the scope of this standard. Appendix A provides additional information about the value and use of project-specific contractor work plans. Appendix B provides an example of language that can be used in procurement/specification documents to specify compliance with requirements of SSPC-PA 1. Appendix C provides a list of additional SSPC reference materials.

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3. REFERENCED STANDARDS

3.1 The latest issue, amendment, or revision of the referenced documents in effect at the time of publication of this standard is shown below and shall govern unless otherwise specified. Items preceded by an asterisk (*) are referenced in the Notes and are not requirements of the standard.

3.2 If there is a conflict between the requirements of any of the cited reference documents and this standard, the requirements of this standard shall prevail.

3.3 SSPC DOCUMENTS:

- | | |
|---|--|
| PA 2 (2015) | Determining Compliance to Dry Coating Thickness Requirements |
| PA 17 (2012) | Determining Compliance to Steel Profile Requirements |
| Guide 12 (1998) | Guide for Illumination of Industrial Painting Projects |
| Guide for Planning Coatings Inspection | |

3.4 AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) STANDARDS:¹

- | | |
|------------------------|---|
| D16 (2014) | Standard Terminology for Paint, Related Coatings, Materials, and Applications |
| D669-93 (2011) | Standard Test Method for Evaluating Degree of Checking of Exterior Paints |
| D714-02 (2009) | Standard Test Method for Evaluating Degree of Blistering of Paints |
| D4285-83 (2012) | Method for Indicating Oil or Water in Compressed Air |
| E337-15 | Standard Test Method for Measuring Humidity with a Psychrometer (The Measurement of Wet- and Dry-Bulb Temperatures) |

3.5 NACE INTERNATIONAL STANDARD:²

- * **SP0178 (2007)** Fabrication Details, Surface Finishing Requirements, and Proper Design Considerations for Tanks and Vessels to be Lined for Immersion Service

4. DEFINITIONS

BLISTERING: Formation of dome-shaped projections (blisters) in paints or varnish films resulting from local loss of adhesion and lifting of the film from an underlying paint film

¹ ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19380-2899. 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.

² NACE International, 14400 Park Ten Place, Houston, Texas 77064. Phone 281-228-6200. <http://www.nace.org>

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B Lingard



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