Designation: D5367 – 16

Standard Practice for Evaluating Coatings Applied Over Surfaces Treated With Inhibitors Used to Prevent Flash Rusting of Steel When Water or Water/Abrasive Blasted[1]

This standard is issued under the fixed designation D5367; 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.

1. Scope

1.1 This practice covers procedures to evaluate the compatibility of coatings with inhibitors used to prevent flash rusting of steel before application of coatings.

1.2 The inhibitors are used with water-blast cleaning surface preparation and may be used with or without abrasives.

1.3 The manufacturer of the coatings shall be consulted to ensure compatibility of inhibitors with the coatings.

1.4 *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 limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*[2]

A36/A36M Specification for Carbon Structural Steel
B117 Practice for Operating Salt Spray (Fog) Apparatus
D714 Test Method for Evaluating Degree of Blistering of Paints
D1193 Specification for Reagent Water
D1654 Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments
D3359 Test Methods for Measuring Adhesion by Tape Test
D4417 Test Methods for Field Measurement of Surface Profile of Blast Cleaned Steel
D4541 Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
D4585 Practice for Testing Water Resistance of Coatings Using Controlled Condensation
D6677 Test Method for Evaluating Adhesion by Knife

2.2 *SSPC Documents:*[3]

SSPC-SP 5 Surface Preparation Specification No. 5, White Metal Blast Cleaning
SSPC-SP WJ-1/NACE WJ-1 Waterjet Cleaning of Metals Clean to Bare Substrate
SSPC-SP WJ-2/NACE WJ-2 Waterjet Cleaning of Metals Very Thorough Cleaning
SSPC-SP WJ-3/NACE WJ-3 Waterjet Cleaning of Metals Thorough Cleaning
SSPC-SP WJ-4/NACE WJ-4 Waterjet Cleaning of Metals Light Cleaning
SSPC-SP 5 (WAB)/NACE WAB-1 White Metal Wet Abrasive Blast Cleaning
SSPC-SP 10 (WAB)/NACE WAB-2 Near White Wet Abrasive Blast Cleaning
SSPC-SP 6 (WAB)/NACE WAB-3 Commercial Wet Abrasive Blast Cleaning
SSPC-SP 14 (WAB)/NACE WAB-8 Industrial Wet Abrasive Blast Cleaning
SSPC-SP 7 (WAB)/NACE WAB-4 Brush-Off Wet Abrasive Blast Cleaning
SSPC-TR2/NACE 6G 198 Wet Abrasive Blast Cleaning[3]

2.3 *NACE Document:*[4]

NACE TM-01-74 Laboratory Method for Evaluation of Protective Coatings and Lining Materials on Metallic Substrates in Immersion Service

3. Significance and Use

3.1 Water-blast cleaning with (SSPC-TR2/NACE 6G 198; SSPC-SP 5 (WAB)/NACE WAB-1; SSPC-SP 10 (WAB)/NACE WAB-2; SSPC-SP 6 (WAB)/NACE WAB-3; SSPC-SP 14 (WAB)/NACE WAB-8); SSPC-SP 7 (WAB)/NACE WAB-4 or without, (SSPC-SP WJ-1/NACE WJ-1; SSPC-SP WJ-2/NACE WJ-2; SSPC-SP WJ-3/NACE WJ-3; SSPC-SP WJ-4/NACE WJ-4) abrasive, results in flash rusting under some

[1] This practice is under the jurisdiction of ASTM Committee D33 on Protective Coating and Lining Work for Power Generation Facilities and is the direct responsibility of Subcommittee D33.05 on Application and Surface Preparation.

Current edition approved Dec. 1, 2016. Published December 2016. Originally approved in 1994. Last previous edition approved in 2008 as D5367 – 08. DOI: 10.1520/D5367-16.

[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.

[3] Available from Society for Protective Coatings (SSPC), 800 Trumbull Dr., Pittsburgh, PA 15205-4365, http://www.sspc.org.

[4] Available from NACE International (NACE), 15835 Park Ten Pl., Houston, TX 77084, http://www.nace.org.

Copyright © ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959. United States