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Standard Practice for Use of Pictorial Surface Preparation Standards and Guides for Painting Steel Surfaces¹

This standard is issued under the fixed designation D2200; 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.

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

1. Scope

1.1 The visual surface preparation standards consist of a series of color prints available as separate publications. Five different sets of photographs are described in this standard, designated as Method A (ISO/Swedish Standard²) and Methods B through E (SSPC Guides and Reference Photographs³). The methods differ in the depiction of the initial surface, in the definition and depiction of the cleaning conditions, and in the number of cleaning methods included. Because of these differences, the specifier should state which method to use.

1.2 The colored visual surface preparation standards represent different conditions of hot rolled carbon steel before and after surface preparation. Prior to cleaning, there are four rust grades, A to D, that cover the range from intact mill scale to 100 % rusted and pitted steel. The standards then depict the appearance of the initial conditions after cleaning by one or more methods (for example, dry abrasive blast cleaning) to various degrees of thoroughness. In addition, Method B includes three painted conditions that contain various degrees of deterioration. The Guide³ depicts these conditions after various degrees of dry abrasive blast cleaning. Method C

includes four rust grades and three painted conditions that contain various degrees of deterioration. The Guide⁴ depicts these conditions after various degrees of hand and power tool cleaning. Method D includes two rust grades and four painted conditions that contain various degrees of deterioration. The Guide⁵ depicts these conditions after various degrees of water jetting, with three levels of flash rusting. Method E includes two rust grades. The Guide⁶ depicts these conditions after various degrees of wet abrasive blast cleaning, with three levels of flash rusting.

2. Referenced Documents

2.1 Other Documents:

[Pictorial Surface Preparation Standards and Guides²](#),^{3,4,5,6}
[Surface Cleanliness Definitions^{3,4}](#)

3. Terminology

3.1 Definitions:

3.1.1 The cleanliness definitions for the Method A visual surface preparation standard appear in the text of the pictorial surface preparation standards publication.² The definitions for Methods B, C, D, and E are found in a separate publication.^{3,4,5,6}

4. Significance and Use

4.1 The appearance of the various degrees of dry and wet abrasive blast cleaning, hand and power tool cleaning and

¹ This practice is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.46 on Industrial Protective Coatings.

The pictorial standards described were prepared by the Swedish Corrosion Institute and have been jointly approved by ASTM, The Society For Protective Coatings (SSPC) (VIS 1), and the Swedish Standardizing Commission.

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² The pictorial surface preparation standard Method A is available from The Society for Protective Coatings (SSPC), 40 24th St., 6th Floor, Pittsburgh, PA 15222-4656, <http://www.sspc.org> and Sveriges Standardiseringskommission, Box 3295, Stockholm 3, Sweden.

³ The Visual Guide for Method B and surface cleanliness definitions are available from The Society for Protective Coatings (SSPC), 40 24th St., 6th Floor, Pittsburgh, PA 15222-4656, <http://www.sspc.org>.

⁴ The Visual Guide for Method C and the surface cleanliness definitions are available from The Society for Protective Coatings (SSPC), 40 24th St., 6th Floor, Pittsburgh, PA 15222-4656, <http://www.sspc.org>.

⁵ The Visual Guide for Method D and the surface cleanliness definitions are available from The Society for Protective Coatings (SSPC), 40 24th St., 6th Floor, Pittsburgh, PA 15222-4656, <http://www.sspc.org>.

⁶ The Visual Guide for Method E and the surface cleanliness definitions are available from The Society for Protective Coatings (SSPC), 40 24th St., 6th Floor, Pittsburgh, PA 15222-4656, <http://www.sspc.org>.