

# Coating Standard No. 29

## Zinc-Pigmented Primer, Performance-Based

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## 1: Scope

- 1.1 This standard contains requirements for three performance levels of primer coatings used to protect ferrous substrates that contain zinc as the major pigment component. Individual products meeting minimum performance requirements of this standard may vary in formulation, raw materials, and application characteristics. The specifier selects the appropriate performance level. If no Level is specified, Level II becomes the default. SSPC-Paint 20 is a formulation-based standard for inorganic or organic zinc-pigmented coatings that includes options for specifying higher zinc loading levels in the dry coating film. An example of specification language that references both performance and composition requirements can be found in [Note 9.1](#).
- 1.2 This standard does not contain requirements for weldable preconstruction primers such as SSPC-Paint 30.
- 1.3 This coating is intended for application by spray for use by itself or as a primer in a multi-coat system.

## 2: Description

Zinc-pigmented coatings, both topcoated and untopcoated, have been used successfully in a wide variety of environmental zones. For a detailed breakdown of various types of zinc-pigmented coatings in different environmental zones, refer to Table 1 of SSPC-PS Guide 12.00. Consult the coating manufacturer for specific exposure recommendations (see [Note 9.2](#)).

## 3: Referenced Documents

- 3.1 The latest issue, revision, or amendment of the referenced documents in effect on the date of invitation to bid shall govern unless otherwise specified. Those documents marked with an asterisk (\*) are referenced only in the Notes, which are not requirements of this standard.
- 3.2 If there is a conflict between the requirements of any of the cited referenced documents and this standard, the requirements of this standard shall prevail, unless otherwise specified by the procurement documents.

### 3.3 AMPP DOCUMENTS, [www.ampp.org](http://www.ampp.org)

NACE/ASTM G193	Technology and Acronyms Relating to Corrosion
SSPC-Guide 13	Guide for the Identification and Use of Industrial Coating Material in Computerized Product Databases
SSPC-PA 2	Procedure for Determining Compliance with Coating Thickness Requirements
SSPC-PA 15	Material and Preparation Requirements for Steel Test Panels Used to Evaluate the Performance of Industrial Coatings
SSPC-PA 16	Method for Evaluating Scribe Undercutting on Coated Steel Test Panels Following Corrosion Testing
*SSPC-Paint 20	Zinc-Rich Coating, Type I – Inorganic and Type II – Organic
*SSPC-Paint 30	Weld-Through Inorganic Zinc Primer
SSPC-PS Guide 12.00	Guide to Zinc-Rich Coating Systems
SSPC-SP 1	Solvent Cleaning
SSPC-Vis 2	Guide and Visual Reference Photographs for Evaluating Degree of Rusting on Painted Steel Surfaces

### 3.4 ASTM INTERNATIONAL STANDARDS, [www.astm.org](http://www.astm.org)

ASTM D185	Test Methods for Coarse Particles in Pigments, Pastes, and Paints
*ASTM D520	Standard Specification for Zinc Dust Pigment
*ASTM D562	Test Method for Consistency Measuring Krebs Unit (KU) Viscosity of Paints Using a Stormer-type Viscometer
ASTM D714	Test Method for Evaluating Degree of Blistering of Paints