Two-Component Aliphatic Polyurea Topcoat, Fast- or Moderate-Drying, Performance-Based

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Document History:

2023-05-09: Reaffirmed by AMPP Standards Committee (SC) 02, Exterior Coatings–Atmospheric

2015-04-23: Revised by SSPC C.1.9, Polyurea Coatings

2004-04-01: Approved by SSPC C.1.9, Polyurea Coatings

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In AMPP standards, the terms *shall* and *must* are used to state requirements and are considered mandatory. The term *should* is used to state something that is recommended, but is not considered mandatory. The term *may* is used to state something considered optional

Section 1: Scope

1.1 This specification contains performance requirements for a two-component, weatherable polyurea topcoat. The coating may be fast or moderately fast drying (see Paragraph A1 of nonmandatory Appendix A).

1.2 Coatings meeting the requirements of this specification are generally suitable for exposures in Environmental Zones 1A (interior, normally dry) 1B (exterior, normally dry), 2A (frequently wet by fresh water, excluding immersion), and 2B (frequently wet by salt water, excluding immersion). Resistance of polyurea topcoats in Environmental Zones 3B (chemical exposure, neutral) and 3C (chemical exposure, alkaline) will vary based upon formulation. The coating manufacturer should be contacted for specific chemical resistance data if required.

1.3 The specified coating is intended for application by brush, spray roller, or plural-component equipment, depending upon its formulation. It is generally applied over a primer or intermediate coat.

1.4 This coating is intended for use as a topcoat over ferrous metal and cementitious substrates that have been suitably primed.

Section 2: Description

2.1 The resins used in the coating result in a polyurea product as described in Paragraph A1 or a hybrid system as described in Paragraph A2.

2.2 Coating Type: The two types of polyurea coatings are differentiated by drying time.

2.2.1 Type 1 (Fast Drying): A Type 1 coating dries to handle in less than 30 minutes (per ASTM D1640).

2.2.2 Type 2 (Moderate Drying): A Type 2 coating dries to handle from 30 minutes to two hours (per ASTM D1640).

Section 3: Referenced Standards and Other Consensus Documents

3.1 The latest issue, revision, or amendment of the referenced standards in effect on the date of invitation to bid shall govern, unless otherwise specified. Standards marked with an asterisk (*) are referenced only in the Notes of nonmandatory Appendix A, and are not requirements of this standard.

3.2 If there is a conflict between the requirements of any of the cited referenced standards and this specification, the requirements of this specification shall prevail.