



Standard Specification for Epoxy-Coated Prefabricated Steel Reinforcing Bars¹

This standard is issued under the fixed designation A934/A934M; 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 specification covers deformed and plain steel reinforcing bars which prior to surface preparation are prefabricated and then coated with a protective fusion-bonded epoxy coating by electrostatic spray or other suitable method.

1.2 Prefabricated steel reinforcing bars coated with fusion-bonded epoxy powder coating in accordance with this specification are intended to be fabricated before being coated.

1.3 Organic coatings other than epoxy may be used provided they meet the requirements of this specification.

1.4 Requirements for epoxy coatings are contained in **An-
nex A1**.

1.5 Guidelines for application process and product test procedures of epoxy coatings for steel reinforcing bars are presented in **Appendix X1**.

1.6 Guidelines for construction practices at the job-site for coated steel reinforcing bars are presented in **Appendix X2**.

1.7 This specification is applicable for orders in either SI (metric) units (as Specification A934M) or inch-pound units [as Specification A934].

1.8 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.9 *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.*

¹ This specification is under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and is the direct responsibility of Subcommittee A01.05 on Steel Reinforcement.

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2. Referenced Documents

2.1 ASTM Standards:²

A615/A615M Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement

A706/A706M Specification for Deformed and Plain Low-Alloy Steel Bars for Concrete Reinforcement

A775/A775M Specification for Epoxy-Coated Steel Reinforcing Bars

A944 Test Method for Comparing Bond Strength of Steel Reinforcing Bars to Concrete Using Beam-End Specimens

A996/A996M Specification for Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement

B117 Practice for Operating Salt Spray (Fog) Apparatus

D4060 Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser

G8 Test Methods for Cathodic Disbonding of Pipeline Coatings

G14 Test Method for Impact Resistance of Pipeline Coatings (Falling Weight Test)

G20 Test Method for Chemical Resistance of Pipeline Coatings

G42 Test Method for Cathodic Disbonding of Pipeline Coatings Subjected to Elevated Temperatures

G62 Test Methods for Holiday Detection in Pipeline Coatings

2.2 NACE International Standard:³

RP 0287 Field Measurement of Surface Profile of Abrasive Blast Cleaned Steel Surfaces Using a Replica Tape

2.3 SSPC Specifications:⁴

SSPC-SP 10 Near-White Blast Cleaning

SSPC-VIS 1 Pictorial Surface Preparation Standards for Painting Steel Surfaces

SSPC-PA 2 Measurement of Dry Coating Thickness with Magnetic Gages

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 NACE International (NACE), 15835 Park Ten Pl., Houston, TX 77084, <http://www.nace.org>.

⁴ Available from Society for Protective Coatings (SSPC), 40 24th St., 6th Floor, Pittsburgh, PA 15222, <http://www.sspc.org>.

*A Summary of Changes section appears at the end of this standard