

Coating Systems (External) for Pipeline Trenchless Crossings

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Document History

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AMPP values your input. To provide feedback on this standard, please contact: standards@ampp.org

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Foreword

This Association for Materials Protection and Performance (AMPP) standard practice provides the most current technology and industry practices for the use of coating systems (external) for pipeline directional drill applications. This includes application and inspection for both plant- and field-applied coatings.

This standard is intended for use by corrosion control personnel, design engineers, project managers, purchasers, and construction engineers, and managers. It is applicable to underground steel pipelines in the oil and gas gathering, distribution, and transmission industries.

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: General

- 1.1 This AMPP standard practice establishes minimum requirements for the application and inspection of coating systems (external) for directional drill applications.
- 1.2 This specification applies to previously coated or uncoated pipe that is to be coated for directional drills, road bores, and areas where extra abrasion resistance is required.
- 1.3 The function of such coatings is to prevent corrosion when used in conjunction with cathodic protection.
- 1.4 This standard describes methods for qualifying and controlling the quality of fusion-bonded epoxy (FBE) pipe coatings, urethane coatings, epoxy-urethanes, shrink sleeves (special applications), two-part liquid epoxies, and other properly qualified coatings (as long as the proper parameters are met in accordance with this document, e.g., polyolefin, three-layer coatings), provides guidelines for the proper application, and identifies inspection and repair techniques to achieve the best application of plant- and field-applied coating systems.
- 1.5 The existing standard practices that should be used to support this standard are:
 - (a) NACE SP0394¹;
 - (b) NACE Standard RP0402²;
 - (c) NACE Standard RP0105³;
 - (d) AMPP SP21493 (Standard under development),⁴ "Coatings, Polyurethane for Field Repair, Rehabilitation, and Girth Weld Joints on Pipelines";
 - (e) NACE SP0303⁵;
 - (f) CSA⁽¹⁾ Z245.20/Z245.21⁶;
 - (g) CSA Z245.30⁷; and
 - (h) ISO⁽²⁾ 21809-3.⁸

⁽¹⁾ Canadian Standards Association (CSA), 178 Rexdale Blvd. Toronto, ON, Canada M9W 1R3.

⁽²⁾ International Organization for Standardization (ISO), Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland.