Coal-Tar Mastic Coating, Cold-Applied

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Section 1: Scope

1.1 This standard covers a cold-applied coal-tar coating for use on underground and underwater steel structures.

1.2 INTENDED USE: This coating, when applied over properly prepared carbon steel, is suitable for use on parts or structures exposed in Environmental Zones 2A (frequently wet by fresh water), 2B (frequently wet by salt water), 2C (fresh water immersion), 2D (salt water immersion), 3B (chemical exposure neutral), and 3C (chemical exposure alkaline). The coating is also suitable for use on hydraulic structures and pipe. It must be used with discretion for immersion in corrosive chemicals since the coating is dissolved by some organic solvents and attacked by oxidizing solutions.

1.3 This coating is intended for application by brush or spray for use by itself or as a primer in a multi-coat system.

Section 2: Description

2.1 The coating described in this standard consists of a cold-applied, black, self-priming, heavy-duty protective coating. It is based on a blend of coal-tar pitch, selected solvents, and fillers.

2.2 The coating contains approximately 70 percent by volume of non-volatile film-forming solids. The theoretical spreading rate for a 380 µm (15 mil) dry film thickness is approximately 1.8 m^2/L (75 ft^2/gal). Actual spreading rates can be significantly lower.

2.3 To prevent checking and alligatoring when exposed to sunlight, the coating must be topcoated with a coal-tar emulsion coating meeting SSPC-Paint 32, or other suitable topcoat.

Section 3: Referenced Standards

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 Appendix A (nonmandatory), which 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 standard, the requirements of this standard shall prevail.

AMPP/NACE/SSPC, www.ampp.org:

SSPC Guide 13	Guide for the Identification and Use of Industrial Coating Materials in Computerized Product Databases
SSPC-PA 2	Procedure for Determining Conformance to Dry Coating Thickness Requirements
SSPC-Paint 32	Coal-Tar Emulsion Coating
SSPC-SP 1	Solvent Cleaning
SSPC-SP 2	Hand Tool Cleaning
SSPC-SP	Power Tool Cleaning

ASTM International (ASTM), www.astm.org*:*

ASTM D5	Standard Test Method for Penetration of Bituminous Materials
ASTM D20	Standard Test Method for Distillation of Road Tars
ASTM D36	Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester