

# Application of a Coating System to Interior Surfaces of Covered Steel Hopper Rail Cars in Plastic, Food, and Chemical Service

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AMPP values your input. To provide feedback on this standard, please contact: [standards@ampp.org](mailto:standards@ampp.org)

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## Foreword

This standard practice encompasses the requirements for expert application of a quality coating system to the interior surfaces of covered steel hopper rail cars that have been prepared to a specified, recognized standard. Qualified inspection of the completed coating system and testing by the use of adequate, readily available instruments are also covered in this standard.

Customers of plastic, food, and chemical products require a higher level of cleanliness and rustfree interior surfaces in covered hopper rail cars. Hopper rail car owners and coating applicators alike have found the need to reevaluate their specifications and application procedures in an effort to overcome problem areas of application, such as weld seams in the vapor space. Coating manufacturers, coating applicators, and those who have contracting authority for hopper rail car internal coating installation should be able to use this standard to ascertain the facilities, equipment, and personnel needed to satisfy the requirements for hopper rail car coating systems in these critical services.

The standard was initially prepared to address the lack of an industry standard for coating the interior of covered hopper rail cars with a high-quality coating system.

## Scope

This AMPP standard is intended for use by North America based rail car manufacturers, owners, operators and repairers who are seeking guidance concerning all facets of interior coating application processes and procedures relative to covered steel hopper rail cars.

## Rationale

This standard was reviewed by SC 17 and deemed to have continuing relevance for the rail industry, hence it is being revised.

## Referenced Standards and Other Consensus Documents

The latest edition, revision, or amendment of the referenced documents in effect shall govern unless otherwise dated.

### **AMPP/NACE/SSPC, [www.ampp.org](http://www.ampp.org):**

NACE Publication TPC 2	Coating and Linings for Immersion Service
NACE SP0178	Design, Fabrication, and Surface Finish Practices for Tanks and Vessels to be Lined for Immersion Service
NACE No. 2/SSPC-SP 10	Near-White Metal Blast Cleaning
NACE SP0287	Field Measurement of Surface Profile of Abrasive Blast-Cleaned Steel Surfaces Using a Replica Tape
SSPC-PA 17	Procedure for Determining Conformance to Steel Profile/Surface Roughness/Peak Count Requirements
SSPC-Guide 15	Field Methods for Extraction and Analysis of Soluble Salts on Steel and Other Nonporous Substrates
SSPC-SP 1	Solvent Cleaning
SSPC-Guide 11	Guide for Illumination of Industrial Painting Projects
SSPC-PA 7	Procedure for Determining Conformance to Dry Coating Thickness Requirements
NACE SP0108	Discontinuity (Holiday) Testing of New Protective Coatings on Conductive Substrates

### **ASTM, [www.astm.org](http://www.astm.org):**

ASTM D4285	Standard Test Methods for Indicating Oil and Water in Compressed Air
ASTM D4417	Standard Test Methods for Field Measurement of Surface Profile of Blast Cleaned Steel

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