

Guide to Maintenance Coating of Steel Structures in Atmospheric Service

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Foreword

This Guide is intended for owners, consultants, and contractors who perform condition surveys and write maintenance coating programs. It is not intended to be a do-it-yourself guide but is representative of the processes that a coating specialist (such as a Protective Coating Specialist [PCS] certified by AMPP) would follow to develop a maintenance coating plan for specific facilities.

Scope

This Guide covers procedures for developing a maintenance coating program for steel structures in atmospheric service. The Guide may be used for one-time recoat programs or long-range recoat programs. It includes specific steps that may be used, either individually or collectively, to identify and address essential elements of a maintenance coating program. Due to wide variations in procedures, a discussion of contracting methodologies and implementation schemes is outside the scope of this Guide.

Rationale

A maintenance coating program is required to prevent corrosion of steel and deterioration of other substrates. It is also required to maintain an acceptable appearance of coated structures. Decisions on frequency and extent of recoating and type of system to be used require consideration of numerous factors, including both technical and economical alternatives. This Guide was developed to assist those responsible for developing maintenance coating programs for industrial structures in atmospheric service. This revision has been prepared as a result of required periodic review of all AMPP standards and guides.

Referenced Standards and Other Consensus Documents

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

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

NACE WJ-1/SSPC-WJ-1	Waterjet Cleaning of Metals - Clean to Bare Substrate
NACE WJ-2/SSPC-WJ-2	Waterjet Cleaning of Metals - Very Thorough Cleaning
NACE WJ-3/SSPC-WJ-3	Waterjet Cleaning of Metals - Thorough Cleaning
NACE WJ-4/SSPC-WJ-4	Waterjet Cleaning of Metals - Light Cleaning
SSPC-ACS 1/NACE No. 13	Industrial Coating and Lining Application Specialist Qualification and Certification Standard
SSPC-Guide 6	Guide for Containing Debris Generated During Paint Removal Operations
SSPC-Guide 7	Guide for the Disposal of Lead-Contaminated Surface Preparation Debris
SSPC-Guide 14	Guide for the Repair of Imperfections in Galvanized or Inorganic Zinc Coated Steel with Organic Zinc-Rich Paint
SSPC-Guide 17	Field Methods for Retrieval and Analysis of Soluble Salts on Steel and Other Nonporous Substrates
SSPC-Guide 18	Specifiers' Guide for Determining Containment Class and Environmental Monitoring Strategies for Lead Paint Removal Projects
SSPC-PA 2	Procedure for Determining Conformance to Dry Coating Thickness Requirements
SSPC-PA 1	Shop, Field, and Maintenance Painting of Steel
SSPC-SP 1	Solvent Cleaning
SSPC-SP 2	Hand Tool Cleaning

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