

# SSPC: The Society for Protective Coatings

# Technology Guide No. 6

#### GUIDE FOR CONTAINING SURFACE PREPARATION DEBRIS GENERATED DURING PAINT REMOVAL OPERATIONS

#### 1. SCOPE

1.1 This guide describes methods of paint removal, containment systems, and procedures for minimizing or preventing emissions from escaping the work area, and procedures for assessing the adequacy of the controls over emissions.

1.2 The containment systems are categorized in up to four classes per type of paint removal method, based on the extent to which emissions are controlled.

1.3 This guide is primarily intended for use with steel structures, however, some of the methods and materials may be suited for use on concrete, aluminum, wood, or other materials of construction.

1.4 This guide is intended for use by facility owners, specifiers, designers, and contractors. It may also be used by other interested parties.

1.5 A discussion of ventilation is included in the guide to assist users in both controlling emissions to the environment, and in enhancing worker protection and visibility within the containment. It is important to recognize that ventilation systems alone may or may not be sufficient to fully protect workers when the paint being removed contains lead or other toxic metals, and additional work practice and/or administrative controls and respiratory protection may be required to control worker exposures. Requirements or evaluation methods for worker health and safety are outside the scope of this guide.

Note: When toxic metals are referenced in the Guide, lead is often used as the example. This should not be construed to imply that lead is the only toxic metal contained in paints or abrasives, or that lead is the only toxic metal addressed in regulations. A number of toxic metals may be present in paint and abrasives, and regulations are available to address many of them.

#### 2. DESCRIPTION AND DEFINITIONS

2.1 GENERAL: During surface preparation, airborne particulate and debris from the removal of paint (particularly paints containing lead, cadmium, and chromate pigments) can contaminate the air, soil, and water surrounding work sites. The potential environmental hazards are reduced by minimizing or eliminating the airborne particulate, and by containing and

collecting the debris. Controlling airborne particulate and other emissions may be necessary to comply with federal, state, and local regulations.

#### 2.2 OUTLINE OF GUIDE

2.2.1 Procedures Included in this guide:

- Selecting Methods of Surface Preparation and Debris Collection (Section 4.1)
- Specifying Containment Systems (Section 4.2).
- Selecting Methods for Assessing the Quantity of Emissions (Section 4.3)
- Im plementing Containment Project (Section 4.4)

2.2.2 The guide also includes descriptions and commentaries on:

- Methods of Coating Removal (Section 5.1)
- Methods of Collecting Debris (Section 5.2)
- Containment Enclosure Components (Section 5.3)
- Ventilation System Components (Section 5.4)
- Methods for Assessing Quantity of Emissions (Section 5.5)

#### 2.3 DEFINITIONS

2.3.1 Action Level for Lead: Employee exposure, without regard to the use of respirators, to an airborne concentration of lead of 30 micrograms per cubic meter of air (30 µg/m²) calculated as an eight-hour TWA per OSHA General Industry Standard 29 CFR 1910.1025 and OSHA Construction Industry Standard 29 CFR 1926.62.

2.3.2 Containment System: A containment system includes the cover panels, screens, tarps, scaffolds, supports, and shrouds used to enclose an entire work area or a paint removal tool. The purpose is to minimize or prevent the debris generated during surface preparation from entering into the environment, and to facilitate the controlled collection of the debris for disposal. Containment systems may also employ the use of ground covers or water booms.

2.3.3 Emissions: When used in this guide, emissions from the containment that require control include airborne plumes of material, as well as spills or leaks of water, abrasive, paint chips, and debris.

2.3.3 Vestilation System: Ventilation systems include both natural ventilation and mechanical ventilation (fans,

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Bogdan M. Wilamowski, J. David Irwin

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Expanding Metropolitan Highways National Research Council (U.S.). Transportation Research Board. Committee for Study of Impacts of Highway Capacity Improvements on Air Quality and Energy Consumption, Bernard R. Appleman, National Research Council (U.S.). Transportation Research Board, 1995-02 This synthesis will be of interest to state DOT bridge maintenance and construction engineers regulators consultants and contractors involved with the removal of lead paint from bridges and structures and structural coatings specialists chemists and researchers This synthesis describes the current state of the practice for the removal of lead based paint from existing highway steel bridges Avant propos Corrosion Control in Oil and Gas Production Robert Heidersbach, 2018-09-17 Details the proper methods to assess prevent and reduce corrosion in the oil industry using today s most advanced technologies. This book discusses upstream operations with an emphasis on production and pipelines which are closely tied to upstream operations It also examines protective coatings alloy selection chemical treatments and cathodic protection the main means of corrosion control The strength and hardness levels of metals is also discussed as this affects the resistance of metals to hydrogen embrittlement a major concern for high strength steels and some other alloys It is intended for use by personnel with limited backgrounds in chemistry metallurgy and corrosion and will give them a general understanding of how and why corrosion occurs and the practical approaches to how the effects of corrosion can be mitigated Metallurgy and Corrosion Control in Oil and Gas Production Second Edition updates the original chapters while including a new case studies chapter Beginning with an introduction to oilfield metallurgy and corrosion control the book provides in depth coverage of the field with chapters on chemistry of corrosion corrosive environments materials forms of corrosion control inspection monitoring and testing and oilfield equipment Covers all aspects of upstream oil and gas production from downhole drilling to pipelines and tanker terminal operations Offers an introduction to corrosion for entry level corrosion control specialists Contains detailed photographs to illustrate descriptions in the text Metallurgy and Corrosion Control in Oil and Gas Production Second Edition is an excellent book for engineers and related professionals in the oil and gas production industries It will also be an asset to the entry level corrosion control professional who may have a theoretical background in metallurgy chemistry or a related field but who needs to understand the practical limitations of large scale industrial operations associated with oil and gas Synthesis of Highway Practice National Cooperative Highway Research Program, 1998 production **Subject Guide** to Books in Print ,1993 Journal of Protective Coatings & Linings, 2009 Blast Cleaning Technology A. Momber, 2007-12-15 Blast cleaning is one of the most frequently utilised surface treatment method in modern industry Tilghman's patent on Improvement in cutting and engraving stone metal glass etc 1870 was the starting point of the utilisation of blast cleaning for industrial processes Early applications included applications in the foundry industry steel making industry and corrosion protection industry Today's applications include the use for micro machining polishing

maintenance and surface preparation for coating applications Recent advanced applications in the machining industry include blast cleaning assisted laser milling The book is the first comprehensive monograph in this subject It provides a practical and comprehensive review of the technology This book systematically and critically reviews the theory behind the technology the state of current blast cleaning surface quality aspects and the effects of blast cleaning on the performance of Handbook of Thermal Spray Technology Joseph R. Davis, 2004-01-01 This reference covers principles processes types of coatings applications performance and testing and analysis of thermal spray technology It will serve as an introduction and guide for those new to thermal spray and as a reference for specifiers and users of thermal spray coatings and thermal spray experts Coverage encompasses basics of th Materials Performance, 2002 Better Roads ,1997 **LaQue's Handbook of Marine Corrosion** David A. Shifler, 2022-07-01 The new edition of ,1998 LaQue's classic text on marine corrosion providing fully updated control engineering practices and applications Extensively updated throughout the second edition of La Que s Handbook of Marine Corrosion remains the standard single source reference on the unique nature of seawater as a corrosive environment Designed to help readers reduce operational and life cycle costs for materials in marine environments this authoritative resource provides clear guidance on design materials selection and implementation of corrosion control engineering practices for materials in atmospheric immersion or wetted marine environments Completely rewritten for the 21st century this new edition reflects current environmental regulations best practices materials and processes with special emphasis placed on the engineering behavior and practical applications of materials Divided into three parts the book first explains the fundamentals of corrosion in marine environments including atmospheric corrosion erosion microbiological corrosion fatique environmental cracking and cathodic delamination The second part discusses corrosion control methods and materials selection that can mitigate or eliminate corrosion in different marine environments. The third section provides the reader with specific applications of corrosion engineering to structures systems or components that exist in marine environments This much needed new edition Presents a comprehensive and up to date account of the science and engineering aspects of marine corrosion Focuses on engineering aspects descriptive behavior and practical applications of materials usage in marine environments Addresses the various materials used in marine environments including metals polymers alloys coatings and composites Incorporates current regulations standards and recommended practices of numerous organizations such as ASTM International the US Navy the American Bureau of Shipping the International Organization for Standardization and the International Maritime Organization Written in a clear and understandable style La Que s Handbook of Marine Corrosion Second Edition is an indispensable resource for engineers and materials scientists in disciplines spanning the naval maritime commercial shipping industries particularly corrosion engineers ship designers naval architects marine engineers oceanographers and other professionals involved with products that operate in marine environments LTAP Resources Directory ,1995 Handbook of Corrosion Engineering 2/E

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web fractional crystallization lab 3 scale tray tub trough ice water salt of the rock variety stirring rod funnel hot plate bunsen burner beaker tongs procedure measure the mass of the beakers and record next measure 50 ml of the nacl kno3 solution into the graduated cylinder then pour into the beaker

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web fractional crystallization lab calculations 14th international symposium on industrial crystallization sep 25 2022 this conference provides a forum for discussion of the advances in the theory and practice of crystallization as it relates to the production of bulk crystalline materials crystallization apr 01 2023

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web in chemistry fractional crystallization is a method of refining substances based on differences in their solubility it fractionates via differences in crystallization forming of crystals