## SSPC: The Society for Protective Coatings

## **GUIDE NO. 11**

## Guide for Coating Concrete

### 1. Scope

1.1 This Guide describes basic procedures for surface preparation and application of coatings to concrete surfaces in industrial plants or commercial facilities.

1.2 The Guide is pertinent for both new construction and maintenance applications.

1.3 This Guide is intended for use by the owner's representatives and applicators.

#### 2. Description and Definitions

#### 2.1 DESCRIPTION

2.1.1 Coatings are applied to concrete surfaces to prevent degradation, to maintain appearance and to preserve purity of product contained within a concrete structure.

2.1.2 The major procedures covered in the Guide are surface preparation, coating application, inspection, and safety.

#### 2.2 DEFINITIONS

2.2.1 Bug Holes: Small regular or irregular cavities, usually not exceeding 15 mm in diameter, resulting from entrapment of air bubbles in the surface of formed concrete during placement and consolidation.

2.2.2 Concrete: A composite material that consists essentially of a binding medium within which are embedded particles or fragments of aggregate, usually a combination of fine aggregate and coarse aggregate.

2.2.3 Curing Membrane; Materials applied to prevent the moisture in uncured concrete from evaporating too rapidly.

2.2.4 Efflorescence: A white crystalline or powdery deposit on the surface of concrete. Efflorescence results from leaching of lime or calcium hydroxide out of a permeable concrete mass over time by water, followed by reaction with carbon dioxide and acidic pollutants.

2.2.5 Form Release Agents: Compounds such as petroleum oils, waxes, and silicones applied to forms to allow easy removal of forms. 2.2.6 Hydration: The reaction of water with the calcium silicate, aluminate or aluminoferrite components of fine cement grains, necessary for the setting and densifying of concrete. Hydration results in the formation of calcium hydraxide and colloidal gels which occupy a larger volume than the original cement.

2.2.7 Hydrostatic Pressure: The pressure exerted by water at rest.

2.2.8 Laltance: A thin, weak, brittle layer of cement and aggregate fines on a concrete surface. The amount of laitance is influenced by the degree of working or amount of water in the concrete.

2.2.9 Outgassing: The upward and outward emission of air or moisture vapor from concrete.

2.2.10 Surface Porosity: Porosity or permeability at the concrete surface that may absorb vapors, moisture, chemicals, and coating liquids. Small interconnected voids which allow fluids to penetrate an otherwise impervious material.

2.2.11 Surface Hardeners: Compounds applied to a concrete surface to improve hardness, and to decrease permeability.

#### 3. Reference Standards

3.1 The standards referenced in this guide are listed in Sections 3.3 through 3.6 and form a part of this Guide.

3.2 The latest issue, revision, or amendment of the reference standards in effect on the date of invitation to bid should govern unless otherwise specified.

#### 3.3 SSPC STANDARDS:

- PA Guide 1 Shop, Field and Maintenance Painting of Steel
- PA Guide 3 A Guide to Safety in Paint Application SP 1 Solvent Cleaning

#### 3.4 ASTM STANDARDS:

D 3359 Test Methods for Measuring Adhesion by Tape Test

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Index of Specifications and Standards ,2005 Department Of Defense Index of Specifications and Standards Numerical Department Of Defense Index of Specifications and Standards Federal Supply Class Listing Listing Part II July 2005, Metallurgy and Corrosion Control in Oil and Gas Production Robert Heidersbach, 2018-09-17 (FSC) Part III July 2005, 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 production **Department Of Defense Index of Specifications and Standards** Alphabetical Listing Part I July 2005, Handbook of Engineering Practice of Materials and Corrosion Jung-Chul (Thomas) Eun, 2020-09-04 This handbook is an in depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries The book covers materials corrosion welding heat treatment coating test and inspection and mechanical design and integrity A central focus is placed on industrial requirements including codes standards regulations and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility. The comprehensive resource provides expert quidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry tested best practices rationales and case studies **SSPC-Guide 11** Society for Protective Coatings, 1997 LaOue's Handbook of Marine Corrosion David A. Shifler, 2022-07-01 The new edition of LaQue's classic text on marine corrosion providing fully updated

control engineering practices and applications Extensively updated throughout the second edition of La Oue 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 fatigue 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 Publications Referenced in Guide Specifications for Civil Works and Military Construction United States. Army. Corps of Engineers, 1977 Department Of Defense Index of Specifications and Standards Numerical Canceled Listing (APPENDIX) Part IV September 2005, **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 Lead Hazard Evaluation and Control in Buildings, Engineering and Design ,1986

**Journal of Protective Coatings & Linings**, 1994 Above Ground Storage Tanks Sunil Pullarcot, 2015-06-02 Covers All Site Activities after DesignAbove Ground Storage Tanks Practical Guide to Construction Inspection and Testing is an ideal guide for engineers involved in the mechanical construction of above ground storage tanks This text details the construction of storage tanks in accordance with the American Petroleum Institute requirements for AP Coating Application for Piping, *Valves and Actuators in Offshore Oil and Gas Industry* Karan Sotoodeh, 2022-09-14 This book looks at the applications of coating in piping valves and actuators in the offshore oil and gas industry Providing a key guide for professionals and students alike it highlights specific coating standards within the industry including ISO NORSOK SSPC and NACE In the corrosive environment of a seawater setting coatings to protect pipes valves and actuators are essential This book provides both the theory behind these coatings and practical applications including case studies from multinational companies It covers different offshore zones and their corrosivity level alongside the different types of external corrosion such as stress cracking and hydrogen induced stress cracking The key coatings discussed are zinc rich coatings thermal spray zinc or aluminum phenolic epoxy and passive fire protection with a review of their defects and potential failures The book also details the role of coating inspectors and explains how to diagnose faults Case studies from companies such as Aker Solutions Baker Hughes Equinor and British Petroleum illustrate the wide range of industrial applications of coating technologies This book is of interest to engineers and students in materials coating mechanical piping or petroleum engineering Exposure Risks During Construction Activities United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Health and the Environment. 1993 Synthesis of Highway Practice National Cooperative Highway Research Program, 1998 Electrochemical and Metallurgical Industry, 1955 Beckett Baseball Card Price Guide 18 James Beckett, 1996-04

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## **Table of Contents Sspc Guide 11**

- 1. Understanding the eBook Sspc Guide 11
  - The Rise of Digital Reading Sspc Guide 11
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Sspc Guide 11
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Sspc Guide 11
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Sspc Guide 11
  - Personalized Recommendations
  - Sspc Guide 11 User Reviews and Ratings
  - Sspc Guide 11 and Bestseller Lists
- 5. Accessing Sspc Guide 11 Free and Paid eBooks

- Sspc Guide 11 Public Domain eBooks
- Sspc Guide 11 eBook Subscription Services
- Sspc Guide 11 Budget-Friendly Options
- 6. Navigating Sspc Guide 11 eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Sspc Guide 11 Compatibility with Devices
  - Sspc Guide 11 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sspc Guide 11
  - Highlighting and Note-Taking Sspc Guide 11
  - Interactive Elements Sspc Guide 11
- 8. Staying Engaged with Sspc Guide 11
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sspc Guide 11
- 9. Balancing eBooks and Physical Books Sspc Guide 11
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sspc Guide 11
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sspc Guide 11
  - Setting Reading Goals Sspc Guide 11
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sspc Guide 11
  - Fact-Checking eBook Content of Sspc Guide 11
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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