

**Copyright 2012, The Sherwin-Williams Company**

**ISSUED March 2012**

**09 91 13- CARB-VOC EXTERIOR PAINTING**

**THE SHERWIN-WILLIAMS COMPANY**

**COMMERCIAL PAINTING SPECIFICATION GUIDE**

This Painting Schedule is furnished only as a guide to select exterior paint systems, and is not all-inclusive of available Sherwin-Williams products. Although it is written in the CSI format and can be included in its entirety in a master specification, one should review the contents and edit to suit the particular needs of the project and its respective location.

The schedule is arranged by substrates, and offers various degrees of gloss available.

CARB (California Air Resource Board) VOC (Volatile Organic Compound) regulations have been taken into consideration, but we suggest that you verify your product selections to meet the requirements of the area in which they are to be used. If the project is located within the OTC, CARB, SCAQMD or other VOC regulated regions; one must comply with the regulations regarding VOCs. All the Sherwin-Williams coatings in this specification are CARB compliant products as packaged.

If you need more specific information on a particular product, refer to the current Sherwin-Williams Painting Systems Catalog or the [www.sherwin-williams.com](http://www.sherwin-williams.com) Web site or call our Architectural Services Department toll free.

**The Sherwin-Williams Company  
Architectural Services Department  
1-800-321-8194 (Telephone)  
216-566-1392 (fax)**

## SECTION 09 91 13

### EXTERIOR PAINTS AND COATINGS



#### Part 1 GENERAL

##### 1.1 SECTION INCLUDES

- A Exterior paints and coatings systems including; paints, stains, transparent coatings, and opaque finishes.

##### 1.2 RELATED SECTIONS

- A Section 05 05 13 - Shop Applied Coatings for Metal.
- B Section 06 01 40 - Architectural Woodwork Refinishing.
- C Section 06 05 83 - Shop Applied Wood Coatings
- D Section 07 19 00 - Water Repellents.
- E Section 09 67 00 - Fluid Applied Flooring for Concrete
- F Section 09 93 00 - Stains and Transparent Finishes
- G Section 09 96 00 - High-Performance Coatings

##### 1.3 REFERENCES

- A SSPC-SP 1 - Solvent Cleaning.
- B SSPC-SP 2 - Hand Tool Cleaning.
- C SSPC-SP 3 - Power Tool Cleaning.
- D SSPC-SP 13 / NACE No. 6 Surface Preparation for Concrete.
- E EPA-Method 24
- F CARB (California Air Resources Board)

#### **1.4 SUBMITTALS**

- A. Submit under provisions of Section 01 33 00, Submittal Procedures.
- B. Product Data: Manufacturer's data sheets on each paint and coating product should include:
  - 1 Product characteristics
  - 2 Surface preparation instructions and recommendations
  - 3 Primer requirements and finish specification
  - 4 Storage and handling requirements and recommendations
  - 5 Application methods
  - 6 Cautions
- C. Selection Samples: Submit a complete set of color chips that represent the full range of manufacturer's color samples available.
- D. Verification Samples: For each finish product specified, submit samples that represents actual product, color, and sheen.
- E. Submit CARB complying products only

#### **1.5 MOCK-UP**

Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of painting on the project.

- A. Finish surfaces for verification of products, colors, & sheens.
- B. Finish area designated by Architect.
- C. Provide samples that designate prime & finish coats.
- D. Do not proceed with remaining work until the Architect approves the mock-up samples.

#### **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Delivery: Deliver manufacturer's unopened containers to the work site. Packaging shall bear the manufacturer's name, label, and the following list of information:
  - 1 Product name, type (description)
  - 2 Application & use instructions
  - 3 Surface preparation
  - 4 VOC content
  - 5 Environmental issues
  - 6 Batch date
  - 7 Color number
- B. Storage: Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction. Store materials in an area that is within the acceptable temperature range, per manufacturer's instructions. Protect from freezing.
- C. Handling: Maintain a clean, dry storage area, to prevent contamination or damage to the coatings.

#### **1.7 PROJECT CONDITIONS**

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not apply coatings under environmental conditions outside manufacturer's absolute limits.

## Part 2 PRODUCTS

### 2.1 MANUFACTURER'S

- A Acceptable Manufacturer:  
The Sherwin-Williams Company  
101 Prospect Avenue NW  
Cleveland, OH 44115  
Tel: (800) 321-8194  
Fax: (216) 566-1392  
www.sherwin-williams.com
- B. Substitutions: Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 Product Requirements.  
When submitting request for substitution, provide complete product data specified above under Submittals, for each substitute product.

### 2.2 APPLICATIONS/SCOPE

- A Use this article to define the scope of painting if not fully defined in a Finish Schedule or on the drawings. This article must be carefully edited to reflect the surfaces actually found on the project. In some cases, it may be enough to use the first paragraph that says, in effect, "paint everything" along with a list of items not to paint, without exhaustively defining all the different surfaces and items that must be painted.
- B If the project involves repainting some but not all existing painted surfaces, be sure to indicate the extent of the repainting.
- C The descriptions of each system can also be used to further refine the definition of what is to be painted, stained, or clear finished.
- D INDUSTRIAL MAINTENANCE COATINGS are coatings, including primers, sealers, undercoaters, intermediate coatings and topcoats, formulated for or applied to substrates, including floors, that are exposed to one or more of the following extreme environmental conditions:
  - (A) immersion in water, wastewater, or chemical solutions (aqueous and non-aqueous solutions), or chronic exposure of interior surfaces to moisture condensation;
  - (B) acute or chronic exposure to corrosive, caustic or acidic agents, or similar chemicals, chemical fumes, chemical mixtures, or solutions;
  - (C) repeated exposure to temperatures in excess of 250 degrees Fahrenheit;
  - (D) repeated heavy abrasion, including mechanical wear and repeated scrubbing with industrial solvents, cleaners, or scouring agents; or
  - (E) exterior exposure of metal structures.
- E Surfaces To Be Coated:
  - Concrete:** Cementitious Siding, Flexboard, Transite, and Shingles
  - Masonry:** Concrete Masonry Units, Cinder or Concrete Block
  - Concrete:** Concrete Floors, Patios, Porches, Steps & Platforms
  - Metal:** Aluminum/Galvanized
  - Metal:** Structural Iron & Steel, Tanks, Water Towers, and Trim
  - Wood:** Siding, Trim, Shutters, Sash, and Misc. Hardboard
  - Wood:** Decks
  - Architectural:** PVC, Plastic & Fiberglass
  - Drywall:** Gypsum Board, and Exterior Drywall
  - Vinyl:** Siding, EIFS, Synthetic Stucco

<b>2.3 SCHEDULE INDEX - EXTERIOR SURFACES (NORMAL EXPOSURE)</b>	
<b>A. CONCRETE- (Cementitious Siding, Flexboard, Transite, Shingles)</b>	Pages 6-8
1. Latex Systems	
2. Elastomeric System	
3. Textured Elastomeric System	
4. Textured & Smooth Systems	
5. Stain System	
6. Clear Water Repellant	
<b>B. MASONRY - (Concrete Masonry Units Cinder or Concrete Block)</b>	Pages 8-10
1. Latex Systems	
2. Elastomeric System	
3. Textured Elastomeric System	
4. Textured System	
5. Stain System	
6. Clear Water Repellant	
<b>C. CONCRETE - (Concrete Floors, Patios, Porches, Steps &amp; Platforms)</b>	Page 10
1. Acrylic Water-Based System	
2. Solid Stain Finish	
<b>D. METAL - (Aluminum, Galvanized)</b>	Page 11
1. Latex Systems	
<b>E. METAL -Ferrous (Structural Iron &amp; Steel, Tanks, Water Towers, Trim)</b>	Page 11
1. Latex Systems	
<b>F. WOOD - (Siding, Trim, Shutters, Sash, Misc., Hardboard)</b>	Pages 12-13
1. Latex Systems	
2. Stain-Water-Reducible System	
<b>G. WOOD - (Decks)</b>	Page 13
1. Stain - Solid Color Acrylic	
2. Semi-Transparent-Waterborne Alkyd/Acrylic	
<b>H. ARCHITECTURAL PVC, PLASTIC, FIBERGLASS</b>	Page 14
1. Latex Systems	
<b>I. DRYWALL - (Gypsum Board, Exterior Drywall)</b>	Page 15
1. Latex Systems	
<b>J. VINYL SIDING, EIFS, SYNTHETIC STUCCO</b>	Page 15
1. Latex Systems	

**Index of Data pages**

[DATAPAGES AND MSDS SHEETS: \(To open any of the Data page Files, please click here\)](#)

**\* Refer to the current MSDS/EDS for exact VOCs. VOCs may vary by base. Some colors may not be zero VOC after tinting with conventional colorants**

**2.3 SCHEDULE**

**A. CONCRETE - (Cementitious Siding, Flexboard, Transite Board, Shingles (Non-Roof), Common Brick, Stucco, Tilt-up, Precast, and Poured-in-place Cement)**

**1. Latex Systems**

a. Gloss Finish

- 1st Coat: S-W Loxon® Acrylic Masonry Primer, A24W8300  
(8 mils wet, 3.2 mils dry)
- 2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series
- 3rd Coat: S-W A-100® Exterior Latex Gloss, A8 Series  
(4 mils wet, 1.3 mils dry per coat)

b. Semi-Gloss

- 1st Coat: S-W Loxon® Acrylic Masonry Primer, A24W8300  
(8 mils wet, 3.2 mils dry)
- 2nd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series
- 3rd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series  
(4 mils wet, 1.5 mils dry per coat)

c. Satin Finish

- 1st Coat: S-W Loxon® Acrylic Masonry Primer, A24W8300  
(8 mils wet, 3.2 mils dry)
- 2nd Coat: S-W A-100® Exterior Latex Satin, A82 Series
- 3rd Coat: S-W A-100® Exterior Latex Satin, A82 Series  
(4 mils wet, 1.4 mils dry per coat)

d. Flat Finish

- 1st Coat: S-W Loxon® Acrylic Masonry Primer, A24W8300  
(8 mils wet, 3.2 mils dry)
  - 2nd Coat: S-W A-100® Exterior Latex Flat, A6 Series
  - 3rd Coat: S-W A-100® Exterior Latex Flat, A6 Series  
(4 mils wet, 1.4 mils dry per coat)
- 
- 1st Coat: S-W Sher-Crete® Flexible Concrete Waterproofer, A5 Series
  - 2nd Coat: S-W Sher-Crete® Flexible Concrete Waterproofer, A5 Series  
(14-18 mils wet per coat)

- A. **CONCRETE - (Cementitious Siding, Flexboard, Transite Board, Shingles (Non-Roof), Common Brick, Stucco, Tilt-up, Precast, and Poured-in-place Cement)**
- 2. **Elastomeric System (not including; cementitious siding, Flexboard, Transite board, shingles)**
  - a. Flat Finish  
**Low VOC Topcoat**  
 1st Coat: S-W Loxon® Acrylic Masonry Primer, A24W8300  
 (8 mils wet, 3.2 mils dry)  
 2nd Coat: S-W ConFlex XL Elastomeric High Build Coating, A5-400 Series  
 3rd Coat: S-W ConFlex XL Elastomeric High Build Coating, A5-400 Series  
 (16 mils wet, 7.5 mils dry per coat)
- 3. **Textured Elastomeric System**
  - a. Flat Finish  
 1st Coat: S-W Loxon® Acrylic Masonry Primer, A24W8300  
 (8 mils wet, 3.2 mils dry)  
 2nd Coat: S-W ConFlex XL Elastomeric High Build Coating, A5-400 Series  
 (16 mils wet, 7.5 mils dry per coat)  
 3rd Coat: S-W ConFlex XL Textured Elastomeric High Build Coating, A5-800  
 (Fine, Medium, Extra Coarse) (20 mils wet, 9.4 mils dry per coat)
- 4. **Textured & Smooth Systems**
  - a. Textured Water Based Finish  
**Low VOC Topcoat**  
 1st Coat: S-W Loxon® XP Smooth, A24W400 Series  
 (14-18 mils wet; 6.4-8.3 mils dry)  
 2nd Coat: S-W Loxon® XP Fine Textured Waterproofing System, A24-750 Series  
 (14-18 mils wet)
  - b. Smooth Water Based Finish  
 1st Coat: S-W Loxon® XP, A24W400 Series  
 (14-18 mils wet; 6.4-8.3 mils dry)  
 2nd Coat: S-W Loxon® XP, A24W400 Series  
 (14-18 mils wet; 6.4-8.3 mils dry) optional

**A. CONCRETE - (Cementitious Siding, Flexboard, Transite Board, Shingles (Non-Roof), Common Brick, Stucco, Tilt-up, Precast, and Poured-in-place Cement)**

**5. Stain System**

- a. Solid Color Waterborne Finish  
1st Coat: S-W Vertical Concrete Stain, A31 Series  
2nd Coat: S-W Vertical Concrete Stain, A31 Series  
(50-250 sq ft/ gal)

**6. Clear WaterRepellant**

- a. Clear  
1st Coat: S-W Loxon® 7% Siloxane Water Repellant, A10T7  
2nd Coat: S-W Loxon® 7% Siloxane Water Repellant, A10T7  
(50-200 sq ft/ gal)

**B. MASONRY - (Concrete Masonry Units [CMU]- Cinder or Concrete Block)**

**1. Latex Systems**

- a. Gloss Finish  
1st Coat: S-W PrepRite® Block Filler, B25W25  
(75-100 sq ft/gal)  
2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series  
3rd Coat: S-W A-100® Exterior Latex Gloss, A8 Series  
(4 mils wet, 1.3 mils dry per coat)
- b. Semi-Gloss Finish  
1st Coat: S-W PrepRite® Block Filler, B25W25  
(75-100 sq ft/gal)  
2nd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series  
3rd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series  
(4 mils wet, 1.5 mils dry per coat)
- c. Satin Finish  
1st Coat: S-W PrepRite® Block Filler, B25W25  
(75-100 sq ft/gal)  
2nd Coat: S-W A-100® Exterior Latex Satin, A82 Series  
3rd Coat: S-W A-100® Exterior Latex Satin, A82 Series  
(4 mils wet, 1.4 mils dry per coat)
- d. Flat Finish  
1st Coat: S-W PrepRite® Block Filler, B25W25  
(75-100 sq ft/gal)  
2nd Coat: S-W A-100® Exterior Latex Flat, A6 Series  
3rd Coat: S-W A-100® Exterior Latex Flat, A6 Series  
(4 mils wet, 1.4 mils dry per coat)
- 1st Coat: S-W Sher-Crete® Flexible Concrete Waterproofer, A5 Series  
2nd Coat: S-W Sher-Crete® Flexible Concrete Waterproofer, A5 Series  
(14-18 mils wet per coat)



**B. MASONRY - (Concrete Masonry Units [CMU]- Cinder or Concrete Block)**  
**2. Elastomeric System**

- a. Flat Finish  
1st Coat: S-W Loxon® Block Surfacer, A24W200  
(50-100 sq ft/gal)  
2nd Coat: S-W ConFlex XL Elastomeric High Build Coating, A5-400 Series  
3rd Coat: S-W ConFlex XL Elastomeric High Build Coating, A5-400 Series  
(16 mils wet, 7.5 mils dry per coat)

**Alternate**

- 1st Coat: S-W Loxon® Block Surfacer, A24W200  
(50-100 sq ft/gal)  
2nd Coat: S-W Sherlastic Elastomeric Coating, A5-Series  
3rd Coat: S-W Sherlastic Elastomeric Coating, A5-Series  
(14 mils wet, 6 mils dry per coat)

**3. Textured Elastomeric System**

- a. Flat Finish  
1st Coat: S-W Loxon® Block Surfacer, A24W200  
(50-100 sq ft/gal)  
2nd Coat: S-W ConFlex XL Elastomeric High Build Coating, A5-400 Series  
(16 mils wet, 7.5 mils dry per coat)  
3rd Coat: S-W ConFlex XL Textured Elastomeric High Build Coating, A5-800  
(Fine, Medium, Extra Coarse) (20 mils wet, 9.4 mils dry per coat)

**4. Textured & Smooth Masonry Systems**

- a. Textured Water Based Finish  
1st Coat: S-W Loxon® XP Smooth, A24W400 Series  
(14-18 mils wet; 6.4-8.3 mils dry)  
2nd Coat: S-W Loxon® XP Fine Textured Waterproofing System, A24-750 Series  
(14-18 mils wet)
- b. Smooth Water Based Finish  
1st Coat: S-W Loxon® XP, A24W400 Series  
(14-18 mils wet; 6.4-8.3 mils dry)  
2nd Coat: S-W Loxon® XP, A24W400 Series  
(14-18 mils wet; 6.4-8.3 mils dry) optional

**B. MASONRY - (Concrete Masonry Units [CMU]- Cinder or Concrete Block)**

**5. Stain System**

- a. Solid Color Waterborne Finish
  - 1st Coat: S-W Vertical Concrete Stain, A31 Series
  - 2nd Coat: S-W Vertical Concrete Stain, A31 Series  
(50-250 sq ft/ gal)

**6. Clear WaterRepellant**

- a. Clear
  - 1st Coat: S-W Loxon® 7% Siloxane Water Repellant, A10T7
  - 2nd Coat: S-W Loxon® 7% Siloxane Water Repellant, A10T7  
(50-200 sq ft/ gal)

**C. CONCRETE- (Concrete Floors, Patios, Porches, Steps & Platforms)**

**1. Acrylic Water-Based Floor System**

- a. Sastin Finish
  - 1st Coat: S-W Porch & Floor Enamel, A32-200 Series
  - 2nd Coat: S-W Porch & Floor Enamel, A32-200 Series  
(4mils wet; 1.4 mils dry per coat)
- b. Low Luster Finish
  - 1st Coat: S-W Sher-Crete® Flexible Concrete Waterproofer, A5 Series  
(14-18 mils wet)
  - 2nd Coat: S-W H&C Concrete Stain Water Based Clear
  - 3rd Coat: S-W H&C Concrete Stain Water Based Clear  
(50-250 sq ft/ gal)
- c. Flat Finish
  - 1st Coat: S-W Sher-Crete® Flexible Concrete Waterproofer, A5 Series
  - 2nd Coat: S-W Sher-Crete® Flexible Concrete Waterproofer, A5 Series  
(14-18 mils wet per coat)

**2. Solid Stain Finish**

- a. Low Luster Finish
  - 1st Coat: S-W H&C Concrete Stain Solid Color Water Based
  - 2nd Coat: S-W H&C Concrete Stain Solid Color Water Based  
(50-250 sq ft/ gal)

**D. METAL - (Aluminum, Galvanizing)**

**1. Latex Systems**

- a. Gloss Finish
  - 1st Coat: S-W A-100® Exterior Latex Gloss, A8 Series
  - 2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series  
(4 mils wet, 1.3 mils dry per coat)
  
- b. Semi-Gloss Finish
  - 1st Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series
  - 2nd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series  
(4 mils wet, 1.5 mils dry per coat)
  
- c. Satin Finish
  - 1st Coat: S-W A-100® Exterior Latex Satin, A82 Series
  - 2nd Coat: S-W A-100® Exterior Latex Satin, A82 Series  
(4 mils wet, 1.4 mils dry per coat)
  
- d. Flat Finish
  - 1st Coat: S-W A-100® Exterior Latex Flat, A6 Series
  - 2nd Coat: S-W A-100® Exterior Latex Flat, A6 Series  
(4 mils wet, 1.4 mils dry per coat)

**E. METAL - Ferrous (Structural Iron & Steel, Tanks, Water Towers, Sashes, Trim, Conductors, Doors, Ducts, Vents, (Non-Galvanized))**

**1. Latex Systems**

- a. Gloss Finish
  - 1st Coat: S-W Pro Industrial® Pro-Cryl® Primer, B66-310 Series  
(2-4 mils dry)
  - 2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series
  - 3rd Coat: S-W A-100® Exterior Latex Gloss, A8 Series  
(4 mils wet, 1.3 mils dry per coat)
  
- b. Semi-Gloss Finish
  - 1st Coat: S-W Pro Industrial® Pro-Cryl® Primer, B66-310 Series  
(2-4 mils dry)
  - 2nd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series
  - 3rd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series  
(4 mils wet, 1.5 mils dry per coat)

\*\* NOTE TO SPECIFIER\*\* For Higher Performance Systems refer to 09 96 00

**F. WOOD (Siding, Trim, Shutters, Sashes, Hardboard-Bare/Primed)**

**1. Latex Systems**

- a. Gloss Finish
  - 1st Coat: S-W Exterior Latex Wood Primer, B42W8041  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series
  - 3rd Coat: S-W A-100® Exterior Latex Gloss, A8 Series  
(4 mils wet, 1.3 mils dry per coat)
  
- b. Semi-Gloss
  - 1st Coat: S-W Exterior Latex Wood Primer, B42W8041  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series
  - 3rd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series  
(4 mils wet, 1.5 mils dry per coat)
  
- c. Satin Finish
  - 1st Coat: S-W Exterior Latex Wood Primer, B42W8041  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W A-100® Exterior Latex Satin, A82 Series
  - 3rd Coat: S-W A-100® Exterior Latex Satin, A82 Series  
(4 mils wet, 1.4 mils dry per coat)
  
- d. Flat Finish
  - 1st Coat: S-W Exterior Latex Wood Primer, B42W8041  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W A-100® Exterior Latex Flat, A6 Series
  - 3rd Coat: S-W A-100® Exterior Latex Flat, A6 Series  
(4 mils wet, 1.4 mils dry per coat)

**F. WOOD (Siding, Trim, Shutters, Sashes, Hardboard-Bare/Primed)**

**2. Stain - Water Reducible Systems**

- a. Solid Color
  - 1st Coat: S-W WoodScapes® Solid Color Stain, A15 Series
  - 2nd Coat: S-W WoodScapes® Solid Color Stain, A15 Series (200-400 sq ft/gal)
  
- b. Semi-Transparent
  - 1st Coat: S-W WoodScapes® Semi-Transparent Stain, A15T5
  - 2nd Coat: S-W WoodScapes® Semi-Transparent Stain, A15T5 (200-350 sq ft/gal)

**G. Wood Decks, Exterior (including pressure treated lumber)**

**1. Stain - Solid Color Acrylic Latex**

- a. Satin Finish
  - 1st Coat: S-W DeckScapes® Acrylic Solid Color Deck Stain, A15-150 Series
  - 2nd Coat: S-W DeckScapes® Acrylic Solid Color Deck Stain, A15-150 Series (300-500 sq ft/gal)

**2. Semi-Transparent-Waterborne Alkyd/Acrylic**

- a. Flat Finish
  - 1st Coat: S-W DeckScapes® Ext. Waterborne Deck Stain, A15T Series
  - 2nd Coat: S-W DeckScapes® Ext. Waterborne Deck Stain, A15T Series (100-300 sq ft/ per gal)

**H. ARCHITECTURAL PVC, PLASTIC, FIBERGLASS  
(due to the variety of substrate, check for compatibility)**

**1. Latex Systems**

- a. Gloss Finish
  - 1st Coat: S-W PrepRite® ProBlock® Latex Primer, B51 Series  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series
  - 3rd Coat: S-W A-100® Exterior Latex Gloss, A8 Series  
(4 mils wet, 1.3 mils dry per coat)
  
- b. Semi-Gloss
  - 1st Coat: S-W PrepRite® ProBlock® Latex Primer, B51 Series  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series
  - 3rd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series  
(4 mils wet, 1.5 mils dry per coat)
  
- c. Satin Finish
  - 1st Coat: S-W PrepRite® ProBlock® Latex Primer, B51 Series  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W A-100® Exterior Latex Satin, A82 Series
  - 3rd Coat: S-W A-100® Exterior Latex Satin, A82 Series  
(4 mils wet, 1.4 mils dry per coat)
  
- d. Flat Finish
  - 1st Coat: S-W PrepRite® ProBlock® Latex Primer, B51 Series  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W A-100® Exterior Latex Flat, A6 Series
  - 3rd Coat: S-W A-100® Exterior Latex Flat, A6 Series  
(4 mils wet, 1.4 mils dry per coat)

**I. DRYWALL (Gypsum Board, Exterior Drywall)**

**1. Latex Systems**

- a. Gloss Finish
  - 1st Coat: S-W Exterior Latex Wood Primer, B42W8041  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series
  - 3rd Coat: S-W A-100® Exterior Latex Gloss, A8 Series  
(4 mils wet, 1.3 mils dry per coat)
  
- b. Semi-Gloss
  - 1st Coat: S-W Exterior Latex Wood Primer, B42W8041  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series
  - 3rd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series  
(4 mils wet, 1.5 mils dry per coat)
  
- c. Satin Finish
  - 1st Coat: S-W Exterior Latex Wood Primer, B42W8041  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W A-100® Exterior Latex Satin, A82 Series
  - 3rd Coat: S-W A-100® Exterior Latex Satin, A82 Series  
(4 mils wet, 1.4 mils dry per coat)
  
- d. Flat Finish
  - 1st Coat: S-W Exterior Latex Wood Primer, B42W8041  
(4 mils wet, 1.4 mils dry)
  - 2nd Coat: S-W A-100® Exterior Latex Flat, A6 Series
  - 3rd Coat: S-W A-100® Exterior Latex Flat, A6 Series  
(4 mils wet, 1.4 mils dry per coat)

**J. VINYL SIDING\*, EIFS, SYNTHETIC STUCCO**

**1. Latex Systems**

- a. Gloss Finish
  - 1st Coat: S-W A-100® Exterior Latex Gloss, A8 Series
  - 2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series  
(4 mils wet, 1.3 mils dry per coat)
  
- b. Semi-Gloss
  - 1st Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series
  - 2nd Coat: S-W Sonoran Int/Ext Acrylic Latex Semi-Gloss, B40WJ9850 Series  
(4 mils wet, 1.5 mils dry per coat)
  
- c. Satin Finish
  - 1st Coat: S-W A-100® Exterior Latex Satin, A82 Series
  - 2nd Coat: S-W A-100® Exterior Latex Satin, A82 Series  
(4 mils wet, 1.4 mils dry per coat)
  
- d. Flat Finish
  - 1st Coat: S-W A-100® Exterior Latex Flat, A6 Series
  - 2nd Coat: S-W A-100® Exterior Latex Flat, A6 Series  
(4 mils wet, 1.4 mils dry per coat)

## 2.4 MATERIALS - GENERAL REQUIREMENTS

- A. Paints and Coatings - General:
  - 1 Unless otherwise indicated, provide factory-mixed coatings. When required, mix coatings to correct consistency in accordance with manufacturer's instructions before application. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.
  - 2 For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
- B. Primers:
  - 1 Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.

## 2.5 ACCESSORIES:

- A Coating Application Accessories:
  - 1 Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required per manufacturer's specifications.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A Do not begin application of coatings until substrates have been properly prepared. Notify Architect of unsatisfactory conditions before proceeding
- B If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C Proceed with work only after conditions have been corrected, and approved by all parties, otherwise application of coatings will be considered as an acceptance of surface conditions.

### 3.2 SURFACE PREPARATION:

- A Proper product selection, surface preparation, and application affect coating performance. Coating integrity and service life will be reduced because of improperly prepared surfaces. Selection and implementation of proper surface preparation ensures coating adhesion to the substrate and prolongs the service life of the coating system.
- B Selection of the proper method of surface preparation depends on the substrate, the environment, and the expected service life of the coating system. Economics, surface contamination, and the effect on the substrate will also influence the selection of surface preparation methods.
- C The surface must be dry and in sound condition. Remove oil, dust, dirt, loose rust, peeling paint or other contamination to ensure good adhesion.
- D Remove mildew before painting by washing with a solution of 1 part liquid household bleach and 3 parts of warm water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry 48 hours before painting. Wear protective glasses or goggles, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.
- E. No exterior painting should be done immediately after a rain, during foggy weather, when rain is predicted, or when the temperature is below 50°F, unless products are designed specifically for these conditions. On large expanses of metal siding, the air, surface and material temperatures must be 50°F or higher to use low temperature products.



F Methods:

- 1 Aluminum  
Remove all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning.
- 2 Block (Cinder and Concrete)  
Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement, and hardeners. Concrete and mortar must be cured at least 30 days at 75°F, unless the manufactures products are designed for application prior to the 30 day period. The pH of the surface should be between 6 and 9, unless the products to be used are designed to be used in high pH environments such as Loxon-® . On tilt-up and poured-in-place concrete, commercial detergents and abrasive blasting may be necessary to prepare the surface. Fill bug holes, air pockets, and other voids with a cement patching compound.
- 3 Brick:  
Brick must be free of dirt, loose and excess mortar, and foreign material. All brick should be allowed to weather for at least one year followed by wire brushing to remove efflorescence.
- 4 Concrete, SSPC-SP13 or NACE 6  
This standard gives requirements for surface preparation of concrete by mechanical, chemical, or thermal methods prior to the application of bonded protective coating or lining systems. The requirements of this standard are applicable to all types of cementitious surfaces including cast-in-place concrete floors and walls, precast slabs, masonry walls, and shotcrete surfaces. An acceptable prepared concrete surface should be free of contaminants, laitance, loosely adhering concrete, and dust, and should provide a sound, uniform substrate suitable for the application of protective coating or lining systems.
- 4 Cement Composition Siding/Panels  
Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Pressure clean, if needed, with a minimum of 2100 psi pressure to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. The pH of the surface should be between 6 and 9, unless the products to be used are designed to be used in high pH environments such as Loxon-® .
- 5 Copper and Stainless Steel  
Remove all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP 2, Hand Tool Cleaning.
- 6 Drywall—Exterior  
Must be clean and dry. All nail heads must be set and spackled. Joints must be taped and covered with a joint compound. Spackled nail heads and tape joints must be sanded smooth and all dust removed prior to painting. Exterior surfaces must be spackled with exterior grade compounds.
- 7 Exterior Composition Board (Hardboard)  
Some composition boards may exude a waxy material that must be removed with a solvent prior to coating. Whether factory primed or unprimed, exterior composition board siding (hardboard) must be cleaned thoroughly and primed with an alkyd primer.
- 8 Galvanized Metal  
Clean per SSPC-SP1 using detergent and water or a degreasing cleaner to remove greases and oils. Apply a test area, priming as required. Allow the coating to dry at least one week before testing. If adhesion is poor, Brush Blast per SSPC-SP7 is necessary to remove these treatments.

- 9 Steel: Structural, Plate, etc.  
Should be cleaned by one or more of the ten surface preparations described below. These methods were originally established by the Steel Structures Painting Council in 1952, and are used throughout the world for describing methods for cleaning structural steel. Visual standards are available through the Steel Structures Painting Council; ask for SSPC-VIS 1-89. A brief description of these standards together with numbers by which they can be specified follow.
- 10 Solvent Cleaning, SSPC-SP1  
Solvent cleaning is a method for removing all visible oil, grease, soil, drawing and cutting compounds, and other soluble contaminants. Solvent cleaning does not remove rust or mill scale. Change rags and cleaning solution frequently so that deposits of oil and grease are not spread over additional areas in the cleaning process. Be sure to allow adequate ventilation.
- 11 Hand Tool Cleaning, SSPC-SP2  
Hand Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Before hand tool cleaning, remove visible oil, grease, soluble welding residues, and salts by the methods outlined in SSPC-SP1.
- 12 Power Tool Cleaning, SSPC-SP3  
Power Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Before power tool cleaning, remove visible oil, grease, soluble welding residues, and salts by the methods outlined in SSPC-SP1.
- 13 White Metal Blast Cleaning, SSPC-SP5 or NACE 1  
A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods.
- 14 Commercial Blast Cleaning, SSPC-SP6 or NACE 3  
A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter, except for staining. Staining shall be limited to no more than 33 percent of each square inch of surface area and may consist of light shadows, slight streaks, or minor discoloration caused by stains of rust, stains of mill scale, or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods.
- 15 Brush-Off Blast Cleaning, SSPC-SP7 or NACE 4  
A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust, and loose paint. Tightly adherent mill scale, rust, and paint may remain on the surface. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP 1 or other agreed upon methods.
- 16 Power Tool Cleaning to Bare Metal, SSPC-SP11  
Metallic surfaces that are prepared according to this specification, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxide corrosion products, and other foreign matter. Slight residues of rust and paint may be left in the lower portions of pits if the original surface is pitted. Prior to power tool surface preparation, remove visible deposits of oil or grease by any of the methods specified in SSPC-SP1, Solvent Cleaning, or other agreed upon methods.

- 17 Near-White Blast Cleaning, SSPC-SP10 or NACE 2  
A Near White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks, or minor discoloration caused by stains of rust, stains of mill scale, or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods.
- 18 High- and Ultra-High Pressure Water Jetting for Steel and Other Hard Materials  
SSPC-SP12 or NACE 5  
This standard provides requirements for the use of high- and ultra-high pressure water jetting to achieve various degrees of surface cleanliness. This standard is limited in scope to the use of water only without the addition of solid particles in the stream.
- 19 Water Blasting, NACE Standard RP-01-72  
Removal of oil grease dirt, loose rust, loose mill scale, and loose paint by water at pressures of 2,000 to 2,500 psi at a flow of 4 to 14 gallons per minute.
- 20 Stucco  
Must be clean and free of any loose stucco. If recommended procedures for applying stucco are followed, and normal drying conditions prevail, the surface may be painted in 30 days. The pH of the surface should be between 6 and 9, unless the products to be used are designed to be used in high pH environments such as Loxon® .
- 21 Wood—Exterior  
Must be clean and dry. Prime and paint as soon as possible. Knots and pitch streaks must be scraped, sanded, and spot primed before a full priming coat is applied. Patch all nail holes and imperfections with a wood filler or putty and sand smooth.
- 22 Vinyl Siding\*, EIFS, Synthetic Stucco, Architectural Plastics, and Fiberglass  
Clean thoroughly by scrubbing with a warm, soapy water solution. Rinse thoroughly. Do not paint vinyl siding with any color darker than the original color, unless the product and color are designed for such use. Painting with darker colors may cause siding to warp.
- WARNING!** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

### **3.3 INSTALLATION**

- A Apply all coatings and materials with manufacture specifications in mind. Mix and thin coatings according to manufacture recommendation.
- B Do not apply to wet or damp surfaces.
  - 1 Wait at least 30 days before applying to new concrete or masonry. Or follow manufacturer's procedures to apply appropriate coatings prior to 30 days.
  - 2 Test new concrete for moisture content.
  - 3 Wait until wood is fully dry after rain or morning fog or dew.
- C Apply coatings using methods recommended by manufacturer.
- D Uniformly apply coatings without runs, drips, or sags, without brush marks, and with consistent sheen.
- E Apply coatings at spreading rate required to achieve the manufacturer's recommended dry film thickness. A minimum total dry film thickness of 10 - 16 mils and a surface with 10 or less pinholes per square foot is required for a waterproofing system.
- F Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply as many coats as necessary for complete hide.
- G Exterior Woodwork: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 2 weeks.
- H Inspection: The coated surface must be inspected and approved by the architect or engineer just prior to each coat.

### **3.4 PROTECTION**

- A Protect finished coatings from damage until completion of project.
- B Touch-up damaged coatings after substantial completion, following manufacturer's recommendation for touch up or repair of damaged coatings. Repair any defects that will hinder the performance of the coatings.

### **3.5 SCHEDULES**

Specifier Note: Cut and paste the coatings system schedule here (specified in section 2.3 PAINT SCHEDULE), otherwise delete this section.
---

**END OF SECTION03232012**

**TABLE 1**  
**VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS**

Note: Limits are expressed in grams of VOC per liter of coating thinned to the manufacturers maximum recommendation (as indicated on the label or lid of the coating container), excluding the volume of any water, exempt compounds, or **colorant added to tint bases**.

CARB VOC Rules	updated 1/1/12 This information is only a guide and is not all-inclusive of all VOC regulations	
	CARB VOC CONTENT LIMIT: BUTTE, COLUSA, MONTEREY, SACRAMENTO SAN BENITO, SAN DIEGO, SAN LUIS OBISPO SANTA BARBARA, SANTA CRUZ, SHASTA SUTTER, TEHAMA, YOLO, YUBA COUNTIES	CARB VOC EFFECTIVE 1/1/2011: ALAMEDA, CONTRA COSTA, FRESNO, IMPERIAL KERN, KINGS, MADERA, MARIN, MERCED, NAPA, PLACER, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SOLANO, SONOMA, STANISLAUS, TULARE, VENTURA COUNTIES
Flat Coatings	100 g/L	50 g/L
Non-Flat Coatings	150 g/L	100 g/L
Non-Flat – High Gloss Coatings	250 g/L	150 g/L
Concrete & Masonry Sealer	N/A	100 g/L
Dry Fog Coatings	400 g/L	150 g/L
Faux Finishing Coatings	350 g/L	350 g/L
Floor Coatings	250 g/L	100 g/L
High-Temperature Coatings	420 g/L	420 g/L
Industrial Maintenance Coatings	250 g/L	250 g/L
Low-Solids Coatings	120 g/L * (1)	120 g/L * (1)
Multi-Color Coatings	250 g/L	250 g/L
Pre-Treatment Wash Primers	420 g/L	420 g/L
Primers, Sealers, and Undercoaters	200 g/L	100 g/L
Quick-Dry Enamels : see Flat , Non-Flat, High Gloss choices	250 g/L	N/A
Quick-Dry Primers, Sealers and Undercoaters : see other choices	200 g/L	N/A
Rust Preventive Coatings	400 g/L	250 g/L 1/1/2012
Shellacs: Clear	730 g/L	730 g/L
Shellacs: Opaque	550 g/L	550 g/L
Specialty Primers, Sealers, and Undercoaters	350 g/L	100 g/L 1/1/2012
Stains	250 g/L	250 g/L
Traffic Marking Coatings	150 g/L	100 g/L
Varnishes: see Wood Coatings	350 g/L	N/A
Waterproofing Sealers: see other choices	250 g/L	N/A
Waterproofing Concrete/Masonry Sealers: see Concrete & Masonry Sealers	400 g/L	N/A
Wood Coatings	N/A	275 g/L
Wood Preservatives	350 g/L	350 g/L

\*Low Solids Coatings: Units are grams of VOC per liter of coating, including water and exempt compound

# California Air Districts

