

SECTION 099113

EXTERIOR COMMERCIAL PAINTS AND COATINGS

Part 1 GENERAL

1.1 SECTION INCLUDES

- A Exterior paint and coating systems.

1.2 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 Clean-up Information
- C Selection Samples: Submit a complete set of color chips that represent the full range of manufacturer's color samples available.
- D Coating Maintenance Manual: upon conclusion of the project, the Contractor or paint manufacture/supplier shall furnish a coating maintenance manual, such as Sherwin-Williams "Custodian Project Color and Product Information" report or equal. Manual shall include an Area Summary with finish schedule, Area Detail designating where each product/color/finish was used, product data pages, Material Safety Data Sheets, care and cleaning instructions, touch-up procedures, and color samples of each color and finish used.

1.3 DELIVERY, STORAGE, AND HANDLING

- A Delivery: Deliver manufacturer's unopened containers to the work site. Packaging shall bear the manufacturers name, label, and the following list of information:
 - 1 Product name, and type (description)
 - 2 Application & use instructions
 - 3 Surface preparation
 - 4 VOC content
 - 5 Environmental handling

- 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.

1.4 PROJECT CONDITIONS

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 MANUFACTURERS

A Basis of Design:

- 1. Benjamin Moore & Co.
- 2. Bennette Paint Mfg. Co., Inc.
- 3. BLP Mobile Paint Manufacturing.
- 4. California Paints.
- 5. ChemRex.
- 6. Cloverdale Paint.
- 7. Color Wheel Paints & Coatings.
- 8. Columbia Paint & Coatings.
- 9. Coronado Paint.
- 10. Davis Paint Company.
- 11. Diamond Vogel Paints.
- 12. Dunn-Edwards Corporation.
- 13. Durant Paints Inc.
- 14. Duron, Inc.
- 15. Envirocoat Technologies Inc.
- 16. Farrell-Calhoun.
- 17. Flex Bon Paints.
- 18. Frazee Paint.
- 19. General Paint.
- 20. Griggs Paint.
- 21. Hallman Lindsay Quality Paints.
- 22. Hirshfield's, Inc.
- 23. ICI Devoe (Canada).
- 24. ICI Paints.
- 25. Insl-x.

26. Iowa Paint Manufacturing Company, Inc.
27. Kelly-Moore Paints.
28. Kryton Canada Corporation.
29. Kwal-Howells Paint.
30. M.A.B. Paints.
31. McCormick Paints.
32. Miller Paint.
33. Mills Paint.
34. Northern Paint.
35. PARA Paints.
36. Parker Paint Mfg. Co. Inc.
37. Porter Paints.
38. PPG Architectural Finishes, Inc.
39. Rodda Paint Co.
40. Sherwin-Williams Company (The).
41. Sico, Inc.
42. Sigma Coatings.
43. Smiland Paint Company.
44. Spectra-Tone.
45. Sterling Paint.
46. Tnemic
47. Tower Paint.
48. Vista Paint.

- 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 Surfaces to Be Coated:

Concrete: Cementitious Siding, Flexboard, Transite, and Shingles (Non-Roof)
Masonry: Concrete Masonry Units, Cinder or Concrete Block
Concrete: Concrete Floors, Patios, Porches, Steps & Platforms.
Metal: Aluminum/ Galvanized

Metal Ferrous: Misc. Iron, Ornamental Iron,
Wood: Floors, and Platforms
Wood: Siding, Trim, Shutters, Sash, and Misc. Hardboard
Architectural PVC, Plastic, Fiberglass
Drywall: Gypsum Board, and Exterior Drywall
Vinyl: Siding, EIFS, Synthetic Stucco

2.3 SCHEDULE INDEX - EXTERIOR SURFACES (NORMAL EXPOSURE)

- A. CONCRETE - (Cementitious Siding, Flexboard, Transite, Shingles (Non-Roof))
 - 1. Latex Systems
 - 2. Elastomeric System
 - 3. Textured Elastomeric System
 - 4. Textured & Smooth Systems
 - 5. Stain System
 - 6. Clear Water Repellant
- B. MASONRY - (Concrete Masonry Units Cinder or Concrete Block)
 - 1. Latex Systems
 - 2. Elastomeric System
 - 3. Textured Elastomeric System
 - 4. Textured & Smooth Systems
 - 5. Stain System
 - 6. Clear Water Repellant
- C. CONCRETE - (Concrete Floors, Patios, Porches, Steps & Platforms)
 - 1. Acrylic Water-Based System
- D. METAL - Aluminum, Galvanized
 - 1. Latex Systems
- E. METAL - Ferrous (Misc. Iron, Ornamental Iron, Structural Iron & Steel)
 - 1. Latex Systems
- F. WOOD - Decks, Floors, Platforms, non-vehicular
 - 1. Acrylic System
 - 2. Stain
- G. WOOD - (Siding, Trim, Shutters, Sashes, Misc., Hardboard)
 - 1. Latex Systems
 - 2. Stain - Water Reducible Systems
- H. ARCHITECTURAL PVC, PLASTIC, FIBERGLASS
 - 1. Latex Systems
- I. DRYWALL - (Gypsum Board, Exterior Drywall)
 - 1. Latex Systems
- J. VINYL SIDING, EIFS, Synthetic Stucco
 - 1. Latex Systems

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® Concrete & Masonry Primer Sealer, A24W8300
(8.0 mils wet, 3.2 dry)
 - 2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series
 - 3rd Coat: S-W A-100 Exterior Latex Gloss, A8 Series

(4.0 mils wet, 1.3 mils dry per coat)

Early Moisture Resistant Finish

1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W8300
(8.0 mils wet, 3.2 dry)

2nd Coat: S-W Resilience® Latex Gloss, K44 Series

3rd Coat: S-W Resilience Latex Gloss, K44 Series
(4.0 mils wet, 1.6 mils dry per coat)

b. Semi-Gloss Finish

1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W8300
(8.0 mils wet, 3.2 mils dry)

2nd Coat: S-W Solo® Acrylic Semi-Gloss, A76 Series

3rd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
(4.0 mils wet, 1.5 mils dry per coat)

c. Satin Finish

1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W8300
(8.0 mils wet, 3.2 dry)

2nd Coat: S-W A-100 Exterior Latex Satin, A82 Series

3rd Coat: S-W A-100 Exterior Latex Satin, A82 Series
(4.0 mils wet, 1.5 mils dry per coat)

Early Moisture Resistant Finish

1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W8300
(8.0 mils wet, 3.2 mils dry)

2nd Coat: S-W Resilience Latex Satin, K43 Series

3rd Coat: S-W Resilience Latex Satin, K43 Series
(4.0 mils wet, 1.52 mils dry per coat)

d. Low Sheen Finish

1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W8300
(8.0 mils wet, 3.2 dry)

2nd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series

3rd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
(4.0 mils wet, 1.5 mils dry per coat)

e. Flat Finish

1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W8300
(8.0 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
(4.0 mils wet, 1.2 mils dry per coat)

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

1. Latex Systems

e. Flat Finish

Early Moisture Resistant Finish

1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W8300

- (8.0 mils wet, 3.2 mils dry)
 - 2nd Coat: S-W Resilience Latex Flat, K42 Series
 - 3rd Coat: S-W Resilience Latex Flat, K42 Series
(4.0 mils wet, 1.56 mils dry per coat)
 - High Build Coating
 - 1st Coat: S-W Loxon XP, A24-1400 Series
(14.0 mils wet; 6.4 mils dry per coat)
- 2. Elastomeric System (not including; cementitious siding, Flexboard, Transite board, shingles (Non-Roof))
 - a. Flat Finish
 - 1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W8300
(8.0 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
(16.0 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
(14.0 mils wet, 6.0 mils dry per coat)
- 3. Textured Elastomeric System
 - a. Textured Finish
 - 1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W8300
(8.0 mils wet, 3.2 mils dry)
 - 2nd Coat: S-W ConFlex XL Elastomeric High Build Coating, A5-400 Series
(16.0 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) (20.0 mils wet, 9.4 mils dry per coat)
- 4. Textured & Smooth Systems
 - a. Textured (Waterbased Finish)
 - 1st Coat: S-W Loxon Block Surfacer, A24W200
(50-100 sq ft/gal)
 - 2nd Coat: S-W UltraCrete Textured Masonry Topcoat, A44-800 Series
(Fine, Medium, Extra Coarse) (50-80 sq ft/gal)
 - b. Textured Finish (Solvent Based)
 - 1st Coat: S-W UltraCrete Smooth Masonry Water Proof Topcoat, B46 Series
(100-160 sq ft/gal)
 - 2nd Coat: S-W UltraCrete Textured Masonry Water Proof Topcoat, B46 Series
(Fine, Medium, Extra Coarse) (50-80 sq ft/gal)
 - c. Smooth (Waterbased Finish)
 - 1st Coat: S-W Loxon XP, A24-1400 Series
 - 2nd Coat: S-W Loxon XP, A24-1400 Series

(14.0 mils wet, 6.4mils dry per coat) optional

- A. CONCRETE (Cont.)
- 5. Stain System
 - a. Solid Color Waterborne Finish
 - 1st Coat: S-W Loxon Vertical Concrete Stain, A31 Series
 - 2nd Coat: S-W Loxon Vertical Concrete Stain, A31 Series (50-250 sq/ft gal)
- 6. Clear Water Repellant
 - 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 (75-125 sq ft/gal)
 - 2nd Coat: S-W A-100 Exterior Latex Gloss, A8
 - 3rd Coat: S-W A-100 Exterior Latex Gloss, A8 (4.0 mils wet, 1.3 mils dry per coat)

Early Moisture Resistant Finish

 - 1st Coat: S-W PrepRite Block Filler, B25W25 (75-125 sq ft/gal)
 - 2nd Coat: S-W Resilience Latex Gloss, K44 Series
 - 3rd Coat: S-W Resilience Latex Gloss, K44 Series (4.0 mils wet, 1.6 mils dry per coat)
 - b. Semi-Gloss Finish
 - 1st Coat: S-W PrepRite Block Filler, B25W25 (75-125 sq ft/gal)
 - 2nd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
 - 3rd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series (4.0 mils wet, 1.5 mils dry per coat)
 - c. Satin Finish
 - 1st Coat: S-W PrepRite Block Filler, B25W25 (75-125 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 (4.0 mils wet, 1.5 mils dry per coat)

Early Moisture Resistant Finish

 - 1st Coat: S-W Loxon Block Surfacer, A24W200 (50-100 sq ft/gal)
 - 2nd Coat: S-W Resilience Latex Satin, K43 Series
 - 3rd Coat: S-W Resilience Latex Satin, K43 Series

(4.0 mils wet, 1.52 mils dry per coat)

- d. Low Sheen Finish
 - 1st Coat: S-W PrepRite Block Filler, B25W25
(75-125 sq ft/gal)
 - 2nd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
 - 3rd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
(4.0 mils wet, 1.5 mils dry per coat)

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

1. Latex Systems

- e. Flat Finish
 - 1st Coat: S-W PrepRite Block Filler, B25W25
(75-125 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
(4.0 mils wet, 1.2 mils dry per coat)

Early Moisture Resistant Finish

- 1st Coat: S-W Loxon Block Surfacer, A24W200
(50-100 sq ft/gal)
- 2nd Coat: S-W Resilience Latex Flat, K42 Series
- 3rd Coat: S-W Resilience Latex Flat, K42 Series
(4.0 mils wet, 1.56 mils dry per coat)

High Build Coating

- 1st Coat: S-W Loxon XP, A24-1400 Series
(14.0 mils wet, 6.4 mils dry per coat)

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
(16.0 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
(14.0 mils wet, 6.0 mils dry per coat)

3. Textured Elastomeric System

- a. Textured 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

- (16.0 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) (20.0 mils wet, 9.4 mils dry per coat)
4. Textured & Smooth Masonry System
- a. Textured (Water Based Finish)
1st Coat: S-W Loxon Block Surfacer, A24W200
(50-100 sq ft/gal)
2nd Coat: S-W UltraCrete Textured Masonry Topcoat, A44-800 Series
(Fine, Medium, Extra Coarse) (50-80 sq ft/ gal)
- b. Textured Finish (Solvent Based)
1st Coat: S-W UltraCrete Smooth Masonry Water Proof Topcoat, B46 Series
(100-160 sq ft/gal)
2nd Coat: S-W UltraCrete Textured Masonry Water Proof Topcoat, B46 Series
(Fine, Medium, Extra Coarse) (50-80 sq ft/gal)
- B. MASONRY (Concrete Masonry Units [CMU]- Cinder or Concrete Block)(Cont.)
4. Textured & Smooth Masonry System
- c. Smooth (Water Based Finish)
1st Coat: S-W Loxon XP, A24-1400 Series
2nd Coat: S-W Loxon XP, A24-1400 Series
(14.0 mils wet 6.4 mils dry per coat) optional
5. Stain System
- a. Solid Color Waterborne Finish
1st Coat: S-W Loxon Vertical Concrete Stain, A31 Series
2nd Coat: S-W Loxon Vertical Concrete Stain, A31 Series
(50-250 sq/ft gal)
6. Clear Water Repellant
- 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, non-vehicular)
1. Acrylic System Water-Based
- a. Floor Finish
1st Coat: S-W Porch & Floor Enamel, A32-Series
2nd Coat: S-W Porch & Floor Enamel, A32-Series
(4.0 mils wet; 1.5 mils dry per coat)
Alternate:
1st Coat: S-W Sher-Crete Flexible Concrete Waterproofers, A5 Series
2nd Coat: S-W Sher-Crete Flexible Concrete Waterproofers, A5 Series
(10.0-12.0 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/ Galvanized
 - 1. Latex Systems
 - a. Gloss Finish
 - 1st Coat: S-W A-100 Exterior Latex Gloss, A8
 - 2nd Coat: S-W A-100 Exterior Latex Gloss, A8
(4.0 mils wet, 1.3 mils dry per coat)

 - Early Moisture Resistant Finish
 - 1st Coat: S-W Resilience Latex Gloss, K44 Series
 - 2nd Coat: S-W Resilience Latex Gloss, K44 Series
(4.0 mils wet, 1.6 mils dry per coat)

 - b. Semi-Gloss Finish
 - 1st Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
 - 2nd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
(4.0 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
(4.0 mils wet, 1.5 mils dry per coat)

- D. METAL - Aluminum/ Galvanized (Cont.)
 - 1. Latex Systems
 - c. Early Moisture Resistant Finish
 - 1st Coat: S-W Resilience Latex Satin, K43 Series
 - 2nd Coat: S-W Resilience Latex Satin, K43 Series
(4.0 mils wet, 1.52 mils dry per coat)

 - d. Low Sheen Finish
 - 1st Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
 - 2nd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
(4.0 mils wet, 1.5 mils dry per coat)

 - e. Flat Finish
 - 1st Coat: S-W A-100 Exterior Latex Flat, A6 Series
 - 2nd Coat: S-W A-100 Exterior Latex Flat, A6 Series
(4.0 mils wet, 1.4 mils dry per coat)

 - Early Moisture Resistant Finish
 - 1st Coat: S-W Resilience Latex Flat, K42 Series
 - 2nd Coat: S-W Resilience Latex Flat, K42 Series
(4.0 mils wet, 1.2 mils dry per coat)

- E. METAL Ferrous- (Misc. Iron, Ornamental Iron, Structural Iron & Steel,)

1. Latex Systems
 - a. Gloss Finish
 - 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-310 Series
(5.0 mils wet, 2.0 mils dry)
 - 2nd Coat: S-W A-100 Exterior Latex Gloss, A8 Series
 - 3rd Coat: S-W A-100 Exterior Latex Gloss, A8 Series
(4.0 mils wet, 1.3 mils dry per coat)
 - b. Semi-Gloss Finish
 - 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series
(5.0 mils wet, 2.0 mils dry)
 - 2nd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
 - 3rd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
(4.0 mils wet, 1.5 mils dry per coat)

- F. WOOD- Decks, (including pressure treated lumber) (Floors, Platforms non-vehicular)
 1. Acrylic System
 - a. Satin Floor Finish
 - 1st Coat: S-W Porch & Floor Enamel, A32 Series
 - 2nd Coat: S-W Porch & Floor Enamel, A32 Series
(4.0 mils wet, 1.5 mils dry per coat)
 2. Stain Systems
 - a. Solid Color Acrylic Latex
 - 1st Coat: S-W DeckScapes Exterior Acrylic Solid Color Deck Stain, A15-150 Series
 - 2nd Coat: S-W DeckScapes Exterior Acrylic Solid Color Deck Stain, A15-150 Series
(200-400 s/f per gal.)

- F. WOOD- Decks, (including pressure treated lumber) (Floors, Platforms non-vehicular)
 2. Stain Systems (Cont.)
 - b. Semi-Transparent Stain
 - 1st Coat: S-W DeckScapes Exterior Waterborne Deck Stain, A15T215 Series
 - 2nd Coat: S-W DeckScapes Exterior Waterborne Deck Stain, A15T215 Series
(100-350 s/f per gal)
 - c. Clear Stain
 - 1st Coat: S-W DeckScapes Exterior Waterborne Clear, A15T260
 - 2nd Coat: S-W DeckScapes Exterior Waterborne Clear, A15T260
(150-300 sq/ft gal)

- G. WOOD (Siding, Trim, Shutters, Sashes, Hardboard-Bare/Primed)
 1. Latex Systems
 - a. Gloss Finish
 - 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
 - 2nd Coat: S-W A-100 Exterior Latex Gloss, A8
 - 3rd Coat: S-W A-100 Exterior Latex Gloss, A8
(4.0 mils wet, 1.3 mils dry per coat)

Early Moisture Resistant Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W Resilience Latex Gloss, K44 Series
- 3rd Coat: S-W Resilience Latex Gloss, K44 Series
(4.0 mils wet, 1.6 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
- 3rd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
(4.0 mils wet, 1.5 mils dry per coat)

c. Satin Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 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
(4.0 mils wet, 1.5 mils dry per coat)

Early Moisture Resistant Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W Resilience Latex Satin, K43 Series
- 3rd Coat: S-W Resilience Latex Satin, K43 Series
(4.0 mils wet, 1.52 mils dry per coat)

d. Low Sheen Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
- 3rd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
(4.0 mils wet, 1.5 mils dry per coat)

G. WOOD (Siding, Trim, Shutters, Sashes, Hardboard-Bare/Primed) (Cont.)

1. Latex Systems

e. Flat Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 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
(4.0 mils wet, 1.2 mils dry per coat)

Early Moisture Resistant Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W Resilience Latex Flat, K42 Series
- 3rd Coat: S-W Resilience Latex Flat, K42 Series
(4.0 mils wet, 1.56 mils dry per coat)

2. Stain - Water Reducible Systems

a. Semi-Transparent

1st Coat: S-W WoodScapes® Semi-Transparent Stain, A15T5

2nd Coat: S-W WoodScapes Semi-Transparent Stain, A15T5
(100-350 sq ft/gal)

Satin Finish

1st Coat: S-W Log Home Semi-Transparent Stain Satin, A15T1000

2nd Coat: S-W Log Home Semi-Transparent Stain Satin, A15T1000
(100-350 sq ft/gal)

b. 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)

Alternate:

1st Coat: S-W ProMar Solid Color Stain, A16 Series

2nd Coat: S-W ProMar Solid Color Stain, A16 Series
(200-400 sq ft/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/ Sealer, B51 Series
(4.0 mils wet, 1.4 mils dry)

2nd Coat: S-W A-100 Exterior Latex Gloss, A8

3rd Coat: S-W A-100 Exterior Latex Gloss, A8
(4.0 mils wet, 1.3 mils dry per coat)

Early Moisture Resistant Finish

1st Coat: S-W PrepRite ProBlock Latex Primer/ Sealer, B51 Series
(4.0 mils wet, 1.4 mils dry)

2nd Coat: S-W Resilience Latex Gloss, K44 Series

3rd Coat: S-W Resilience Latex Gloss, K44 Series
(4.0 mils wet, 1.6 mils dry per coat)

b. Semi-Gloss

1st Coat: S-W PrepRite ProBlock Latex Primer/ Sealer, B51 Series
(4.0 mils wet, 1.4 mils dry)

2nd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series

3rd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
(4.0 mils wet, 1.5 mils dry per coat)

c. Satin Finish

1st Coat: S-W PrepRite ProBlock Latex Primer/ Sealer, B51 Series
(4.0 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
(4.0 mils wet, 1.5 mils dry per coat)

Early Moisture Resistant Finish

1st Coat: S-W PrepRite ProBlock Latex Primer/ Sealer, B51 Series
(4.0 mils wet, 1.4 mils dry)

2nd Coat: S-W Resilience Latex Satin, K43 Series

3rd Coat: S-W Resilience Latex Satin, K43 Series
(4.0 mils wet, 1.52 mils dry per coat)

d. Low Sheen Finish

1st Coat: S-W PrepRite® ProBlock® Latex Primer/ Sealer, B51 Series
(4.0 mils wet, 1.4 mils dry)

2nd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series

3rd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
(4.0 mils wet, 1.5 mils dry per coat)

e. Flat Finish

1st Coat: S-W PrepRite ProBlock Latex Primer/ Sealer, B51 Series
(4.0 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
(4.0 mils wet, 1.2 mils dry per coat)

Early Moisture Resistant Finish

1st Coat: S-W PrepRite ProBlock Latex Primer/ Sealer, B51 Series
(4.0 mils wet, 1.4 mils dry)

2nd Coat: S-W Resilience Latex Flat, K42 Series

3rd Coat: S-W Resilience Latex Flat, K42 Series
(4.0 mils wet, 1.56 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
(4.0 mils wet, 1.4 mils dry)

2nd Coat: S-W A-100 Exterior Latex Gloss, A8

3rd Coat: S-W A-100 Exterior Latex Gloss, A8
(4.0 mils wet, 1.3 mils dry per coat)

Early Moisture Resistant Finish

1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)

2nd Coat: S-W Resilience Latex Gloss, K44 Series

3rd Coat: S-W Resilience Latex Gloss, K44 Series
(4.0 mils wet, 1.6 mils dry per coat)

b. Semi-Gloss Finish

1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)

- 2nd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
- 3rd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
(4.0 mils wet, 1.5 mils dry per coat)

c. Satin Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 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
(4.0 mils wet, 1.5 mils dry per coat)

Early Moisture Resistant Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W Resilience Latex Satin, K43 Series
- 3rd Coat: S-W Resilience Latex Satin, K43 Series
(4.0 mils wet, 1.52 mils dry per coat)

d. Low Sheen Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
- 3rd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
(4.0 mils wet, 1.5 mils dry per coat)

e. Flat Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 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
(4.0 mils wet, 1.2 mils dry per coat)

Early Moisture Resistant Finish

- 1st Coat: S-W Exterior Latex Wood Primer, B42W8041
(4.0 mils wet, 1.4 mils dry)
- 2nd Coat: S-W Resilience Latex Flat, K42 Series
- 3rd Coat: S-W Resilience Latex Flat, K42 Series
(4.0 mils wet, 1.56 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
- 2nd Coat: S-W A-100 Exterior Latex Gloss, A8
(4.0 mils wet, 1.3 mils dry per coat)

VinylSafe™ Early Moisture Resistant Finish

- 1st Coat: S-W Resilience Latex Gloss, K44 Series
- 2nd Coat: S-W Resilience Latex Gloss, K44 Series
(4.0 mils wet, 1.6 mils dry per coat)

- b. Semi-Gloss Finish
 - 1st Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
 - 2nd Coat: S-W Solo Acrylic Semi-Gloss, A76 Series
(4.0 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
(4.0 mils wet, 1.5 mils dry per coat)

VinylSafe™ Early Moisture Resistant Finish

 - 1st Coat: S-W Resilience Latex Satin, K43 Series
 - 2nd Coat: S-W Resilience Latex Satin, K43 Series
(4.0 mils wet, 1.52 mils dry per coat)

- d. Low Sheen Finish
 - 1st Coat: S-W A-100® Exterior Latex Low Sheen, A12 Series
 - 2nd Coat: S-W A-100 Exterior Latex Low Sheen, A12 Series
(4.0 mils wet, 1.5 mils dry per coat)

- e. Flat Finish
 - 1st Coat: S-W A-100 Exterior Latex Flat, A6 Series
 - 2nd Coat: S-W A-100 Exterior Latex Flat, A6 Series
(4.0 mils wet, 1.2 mils dry per coat)

VinylSafe™ Early Moisture Resistant Finish

 - 1st Coat: S-W Resilience Latex Flat, K42 Series
 - 2nd Coat: S-W Resilience Latex Flat, K42 Series
(4.0 mils wet, 1.56 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 a procedure is specifically described in manufacturer's product instructions. VOCs need to be confirmed by using the products MSDS sheets.

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 examined and 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.
- D Previously Painted Surfaces: Verify that existing painted surfaces do not contain lead based paints, notify Architect immediately if lead based paints are encountered.

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 are designed to be used in high pH environments. 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 **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 are designed to be used in high pH environments.
 - 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 surface preparations described below. These methods are used throughout the world for describing methods for cleaning structural steel. Visual standards are available through the Society of Protective Coatings. 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 are designed to be used in high pH environments such as Loxon®.
- 21 Wood—Exterior
Must be clean and dry. 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, Architectural Plastics, EIFS and Fiberglass

Clean vinyl siding thoroughly by scrubbing with a warm, soapy water solution. Rinse thoroughly. Do not paint with any color darker than the original siding, unless the paint system features Sherwin-Williams VinylSafe technology. Painting with darker colors that are not Sherwin-Williams VinylSafe may cause siding to warping.

3.3 INSTALLATION

- A Apply all coatings and materials with the manufacturer's specifications in mind. Mix and thin coatings according to manufacturer's 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.
- F 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 the application of 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

END OF SECTION 099113