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ISSUED MAY 2018

09 91 23-INTERIOR PAINTING

THE SHERWIN-WILLIAMS COMPANY

COMMERCIAL PAINTING SCHEDULE GUIDE

This Painting Schedule is furnished only as a guide to select interior 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. This specification does not take into consideration wet areas or areas needing high performance coatings.

The schedule is arranged by substrates, and offers latex, & alkyd systems. For Higher Performance Industrial Coatings refer to 09 96 00. Each system also includes the various degrees of gloss available. Architectural and Industrial products are specified in this document.

Local and National V.O.C. (Volatile Organic Compound) regulations have been taken into consideration, but because these regulations vary greatly around the country and are subject to change, we suggest verifying product selections 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. It is always recommended that you consult with a Sherwin-Williams Company Representative, or call our Sherwin-Williams Architectural Services Department before finalizing the selection.

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, website or call our Architectural Services Department toll free.

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

SECTION 09 91 23

INTERIOR PAINTS AND COATINGS



SHERWIN-WILLIAMS.

Part 1 GENERAL

1.1 SECTION INCLUDES

- A Interior paint and coatings systems including: paint, 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

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 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 manufacturer/supplier shall furnish a coating maintenance manual, such as Sherwin-Williams "Custodian Paint Maintenance Manual" 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, Safety Data Sheets, care and cleaning instructions, touch-up procedures, and color samples of each color and finish used.

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:
 - Product name and type (description)
 - Application & use instructions
 - Surface preparation
 - VOC content
 - Environmental handling and an SDS
 - Batch date
 - 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 MANUFACTURERS

- A Acceptable Manufacturer:
The Sherwin-Williams Company
101 Prospect Avenue NW
Cleveland, OH 44115
Tel: (800) 321-8194
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 APPLICATION/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: Poured, Precast, Tilt-Up, Cast-In-Place, Cement Board, Plaster
Concrete: Floors (Non-Vehicular)
Masonry: CMU - Concrete, Split Face, Scored, Smooth, etc.
Metal: Aluminum/Galvanized
Metal Ferrous: Structural Steel, Joists, Trusses, Beams, Partitions, etc.
Wood: Walls, Ceilings, Doors, Trim, etc
Drywall: Gypsum Board, and Drywall

**** NOTE TO SPECIFIER** For High Performance Systems and Dryfall refer to 09 96 00**

2.3 SCHEDULE INDEX

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Index of Data pages

DATAPAGES AND SDS SHEETS: (To open any of the Data page Files, please click here)

Refer to the current SDS/EDS for specific VOCs. VOCs may vary by base and sheen.

EDIT THIS SCHEDULE TO SELECT PRODUCT AND FINISH DESIRED AND VOC NEEDS

2.3 SCHEDULE

A. CONCRETE - (Walls & Ceilings, Poured, Precast, Unglazed Brick, Cement Board, Tilt-Up, Cast-In-Place, Plaster)

1. Latex Systems

a. Gloss

- 1st Coat: S-W Loxon® Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
2nd Coat: S-W ProMar® 200 Zero VOC Latex Gloss, B21-12600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Gloss, B21-12600 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
(4.0 mils wet, 1.5 mils dry per coat)

Alternate:

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
2nd Coat: S-W Harmony® Interior Latex Semi-Gloss, B10 Series
3rd Coat: S-W Harmony® Interior Latex Semi-Gloss, B10 Series
(4 mils wet, 1.7 mils dry per coat)

c. Eg-Shel Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
2nd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
3rd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-12600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-12600 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate:

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
2nd Coat: S-W Harmony Interior Latex Eg-Shel, B9 Series
3rd Coat: S-W Harmony Interior Latex Eg-Shel, B9 Series
(4 mils wet, 1.7 mils dry per coat)

Microbicial[†] Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
2nd Coat: S-W Paint Shield® Interior Latex Eg-Shel, D12W00051
3rd Coat: S-W Paint Shield® Interior Latex Eg-Shel, D12W00051
(4 mils wet, 1.8 mils dry per coat)

**** NOTE TO SPECIFIER**** [†]Paint Shield® Microbicial Paint is the first EPA-registered paint that kills greater than 99.9% *Staphylococcus aureus* (Staph), *Enterobacter aerogenes*, Methicillin-resistant *Staphylococcus aureus* (MRSA), Vancomycin-resistant *Enterococcus faecalis* (VRE), and *Escherichia coli* (E.coli) within 2 hours of exposure on a painted surface.

A. CONCRETE (Walls & Ceilings, Poured, Precast, Unglazed Brick, Cement Board, Tilt-Up, Cast-In-Place, Plaster) (Cont.)

1. Latex Systems

d. Low Sheen/Low Gloss Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, Low Gloss B41-1900 Series
- 3rd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, Low Gloss B41-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series
- 3rd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series
(4 mils wet, 1.6 mils dry per coat)

e. Flat Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series
- 3rd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series
(4.0 mils wet, 1.4 mils dry per coat)

Alternate:

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W Harmony Interior Latex Flat, B05 Series
- 3rd Coat: S-W Harmony Interior Latex Flat, B05 Series
(4.0 mils wet, 1.7 mils dry per coat)

2. Alkyd Systems (Waterbased Acrylic-Alkyd)

a. Gloss Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series
- 3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series
- 3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

c. Eg-Shel Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series
- 3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

A. CONCRETE (Walls & Ceilings, Poured, Precast, Unglazed Brick, Cement Board, Tilt-Up, Cast-In-Place, Plaster)(Cont.)

3. Alkyd Systems (Waterbased Urethane Modified Alkyd)

a. Gloss Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W Emerald® Urethane Trim Enamel Gloss, K39-750 Series
- 3rd Coat: S-W Emerald Urethane Trim Enamel Gloss, K39-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series
- 3rd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

c. Satin Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series
- 3rd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

4. Concrete Stain (Water Base)

a. Flat Finish Solid

- 1st Coat: S-W Loxon Vertical Concrete Stain, LX31W Series
- 2nd Coat: S-W Loxon Vertical Concrete Stain, LX31W Series
(50-250 sq ft/gal)

b. Flat Finish Semi-Transparent

- 1st Coat: S-W Loxon Vertical Semi-Transparent Concrete Stain, LX31T0075
- 2nd Coat: S-W Loxon Vertical Semi-Transparent Concrete Stain, LX31T0075
(150-400 sq ft/gal)

5. Texture Systems

a. Eg-Shel Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W00350
- 3rd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W00350
(100-200 sq ft/gal)

b. Flat Finish

- 1st Coat: S-W Loxon Concrete & Masonry Primer, LX02 Series
(8.0 mils wet, 3.2 mils dry)
- 2nd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W01050
- 3rd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W01050
(100-200 sq ft/gal)

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

B. CONCRETE - FLOORS (Non-Vehicular)

1. Acrylic System

a. Satin Finish

1st Coat: S-W Porch & Floor Enamel, A32-200 Series

2nd Coat: S-W Porch & Floor Enamel, A32-200 Series
(4.0 mils wet, 1.5 mils dry per coat)

Alternate

1st Coat: S-W ConFlex™ Flexible Concrete Waterproof, Smooth, CF14-50 Series

2nd Coat: S-W ConFlex Flexible Concrete Waterproof, Smooth, CF14-50 Series
(10.0-12.0 mils wet per coat)

3rd Coat: SW H&C Clarishield™ Water-Based Clear Sealer, Wet Look

4th Coat: SW H&C Clarishield Water-Based Clear Sealer, Wet Look
(75-300 sq/ft per gallon)

2. Concrete Stain (Water Base)

a. Low Luster Finish Opaque

1st Coat: S-W H&C Acryla-Deck® Water-Based Solid Color 100% Acrylic Deck Coating

2nd Coat: S-W H&C Acryla-Deck Water-Based Solid Color 100% Acrylic Deck Coating
(100-300 sq/ft per gal)

C. MASONRY - (CMU - Concrete, Split Face, Scored, Smooth, High/Low Density, Fluted)

1. Latex Systems

a. Gloss

- 1st Coat: S-W PrepRite® Block Filler, B25W25
(75-125 sq ft/gal)
- 2nd Coat: S-W ProMar 200 Zero VOC Latex Gloss, B21-12600 Series
- 3rd Coat: S-W ProMar 200 Zero VOC Latex Gloss, B21-12600 Series
(4.0 mils wet, 1.4 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 ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
- 3rd Coat: S-W ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
(4.0 mils wet, 1.5 mils dry per coat)

Alternate:

- 1st Coat: S-W ConFlex Block Filler, CF01 Series
(75-100 sq ft/gal)
- 2nd Coat: S-W Harmony® Interior Latex Semi-Gloss, B10 Series
- 3rd Coat: S-W Harmony® Interior Latex Semi-Gloss, B10 Series
(4 mils wet, 1.7 mils dry per coat)

c. Eg-Shel Finish

- 1st Coat: S-W ConFlex Block Filler, CF01 Series
(75-100 sq ft/gal)
- 2nd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
- 3rd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate

- 1st Coat: S-W PrepRite Block Filler, B25W25
(75-125 sq ft/gal)
- 2nd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-12600 Series
- 3rd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-12600 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate:

- 1st Coat: S-W ConFlex Block Filler, CF01 Series
(75-100 sq ft/gal)
- 2nd Coat: S-W Harmony Interior Latex Eg-Shel, B9 Series
- 3rd Coat: S-W Harmony Interior Latex Eg-Shel, B9 Series
(4 mils wet, 1.7 mils dry per coat)

Microbicidal[†] Finish

- 1st Coat: S-W ConFlex Block Filler, CF01 Series
(75-100 sq ft/gal)
- 2nd Coat: S-W Paint Shield® Interior Latex Eg-Shel, D12W00051
- 3rd Coat: S-W Paint Shield® Interior Latex Eg-Shel, D12W00051
(4 mils wet, 1.8 mils dry per coat)

**** NOTE TO SPECIFIER**** †Paint Shield® Microbicidal Paint is the first EPA-registered paint that kills greater than 99.9% *Staphylococcus aureus* (Staph), *Enterobacter aerogenes*, Methicillin-resistant *Staphylococcus aureus* (MRSA), Vancomycin-resistant *Enterococcus faecalis* (VRE), and *Escherichia coli* (E.coli) within 2 hours of exposure on a painted surface.

- C. MASONRY - (CMU - Concrete, Split Face, Scored, Smooth, High/Low Density, Fluted)**
- 1. Latex Systems**
- d. Low Sheen/Low Gloss Finish
- 1st Coat: S-W ConFlex Block Filler, CF01 Series
(75-100 sq ft/gal)
- 2nd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, Low Gloss B41-1900 Series
- 3rd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, Low Gloss B41-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)
- Alternate**
- 1st Coat: S-W PrepRite Block Filler, B25W25
(75-125 sq ft/gal)
- 2nd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series
- 3rd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series
(4 mils wet, 1.6 mils dry per coat)
- e. Flat Finish
- 1st Coat: S-W PrepRite Block Filler, B25W25
(75-125 sq ft/gal)
- 2nd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series
- 3rd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series
(4.0 mils wet, 1.4 mils dry per coat)
- Alternate:**
- 1st Coat: S-W ConFlex Block Filler, CF01 Series
(75-100 sq ft/gal)
- 2nd Coat: S-W Harmony Interior Latex Flat, B05 Series
- 3rd Coat: S-W Harmony Interior Latex Flat, B05 Series
(4.0 mils wet, 1.7 mils dry per coat)
- 2. Alkyd Systems (Waterbased Acrylic-Alkyd)**
- a. Gloss Finish
- 1st Coat: S-W Loxon Acrylic Block Surfacer, LX01 Series
(50-100 sq ft/gal)
- 2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series
- 3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)
- b. Semi-Gloss Finish
- 1st Coat: S-W Loxon Acrylic Block Surfacer, LX01 Series
(50-100 sq ft/gal)
- 2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series
- 3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)
- c. Eg-Shel Finish
- 1st Coat: S-W Loxon Acrylic Block Surfacer, LX01 Series
(50-100 sq ft/gal)
- 2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series
- 3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

- C. MASONRY - (CMU - Concrete, Split Face, Scored, Smooth, High/Low Density, Fluted)**
- 3. Alkyd Systems (Waterbased Urethane Modified Alkyd)**
- a. Gloss Finish
 - 1st Coat: S-W Loxon Acrylic Block Surfacer, LX01 Series (50-100 sq ft/gal)
 - 2nd Coat: S-W Emerald Urethane Trim Enamel Gloss, K39-750 Series
 - 3rd Coat: S-W Emerald Urethane Trim Enamel Gloss, K39-750 Series (4.0 mils wet, 1.4 mils dry per coat)
 - b. Semi-Gloss Finish
 - 1st Coat: S-W Loxon Acrylic Block Surfacer, LX01 Series (50-100 sq ft/gal)
 - 2nd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series
 - 3rd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series (4.0 mils wet, 1.4 mils dry per coat)
 - c. Satin Finish
 - 1st Coat: S-W Loxon Acrylic Block Surfacer, LX01 Series (50-100 sq ft/gal)
 - 2nd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series
 - 3rd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series (4.0 mils wet, 1.4 mils dry per coat)
- 4. Concrete Stain (Water Base)**
- a. Flat Finish Solid
 - 1st Coat: S-W Loxon Vertical Concrete Stain, LX31W Series
 - 2nd Coat: S-W Loxon Vertical Concrete Stain, LX31W Series (50-250 sq ft/gal)
 - b. Flat Finish Semi-Transparent
 - 1st Coat: S-W Loxon Vertical Semi-Transparent Concrete Stain, LX31T0075
 - 2nd Coat: S-W Loxon Vertical Semi-Transparent Concrete Stain, LX31T0075 (150-400 sq ft/gal)
- 5. Texture Systems**
- a. Eg-Shel Finish
 - 1st Coat: S-W Loxon Acrylic Block Surfacer, LX01 Series (50-100 sq ft/gal)
 - 2nd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W00350
 - 3rd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W00350 (100-200 sq ft/gal)
 - b. Flat Finish
 - 1st Coat: S-W Loxon Acrylic Block Surfacer, LX01 Series (50-100 sq ft/gal)
 - 2nd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W01050
 - 3rd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W01050 (100-200 sq ft/gal)

D. METAL – (Aluminum/Galvanized)

1. Latex Systems

a. Gloss Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Gloss Enamel, B21-12650 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Gloss Enamel, B21-12650 Series
(4.0 mils wet, 1.4 mils dry per coat)

Alternate:

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProClassic® Waterborne Acrylic Gloss Enamel, B21-2100 Series
3rd Coat: S-W ProClassic® Waterborne Acrylic Gloss Enamel, B21-2100 Series
(4.0 mils wet, 1.5 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
(4.0 mils wet, 1.5 mils dry per coat)

Alternate:

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProClassic® Waterborne Acrylic Semi-Gloss Enamel, B31-1100 Series
3rd Coat: S-W ProClassic® Waterborne Acrylic Semi-Gloss Enamel, B23-1100 Series
(4.0 mils wet, 1.3 mils dry per coat)

c. Eg-Shel Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
3rd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate:

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-12600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-12600 Series
(4.0 mils wet, 1.7 mils dry per coat)

d. Low Sheen/Low Gloss Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 HP Zero VOC Latex Low Gloss Eg-Shel, B41-1900 Series
3rd Coat: S-W ProMar 200 HP Zero VOC Latex Low Gloss Eg-Shel, B41-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)

D. METAL – (Aluminum/Galvanized) (Cont.)

1. Latex Systems

d. Low Sheen/Low Gloss Finish

Alternate:

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series
- 3rd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series
(4 mils wet, 1.6 mils dry per coat)

e. Flat Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1310 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series
- 3rd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series
(4.0 mils wet, 1.4 mils dry per coat)

2. Alkyd Systems (Waterbased Acrylic-Alkyd)

a. Gloss Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series
- 3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series
- 3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

c. Eg-Shel Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series
- 3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

3. Alkyd Systems (Waterbased Urethane Modified Alkyd)

a. Gloss Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W Emerald Urethane Trim Enamel Gloss, K39-750 Series
- 3rd Coat: S-W Emerald Urethane Trim Enamel Gloss, K39-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series
- 3rd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

D. METAL – (Aluminum/Galvanized) (Cont.)

3. Alkyd Systems (Waterbased Urethane Modified Alkyd)(cont)

c. Satin Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series
3rd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

4. Dryfall Waterborne Topcoats

a. Semi-Gloss Finish

- 1st Coat: S-W Pro Industrial Waterborne Acrylic Dryfall Semi-Gloss, B42W00083
2nd Coat: S-W Pro Industrial Waterborne Acrylic Dryfall Semi-Gloss, B42W00083
(6.0 mils wet, 2.3 mils dry per coat)

b. Eg-Shel Finish

- 1st Coat: S-W Pro Industrial Waterborne Acrylic Dryfall Eg-Shel, B42W00082
2nd Coat: S-W Pro Industrial Waterborne Acrylic Dryfall Eg-Shel, B42W00082
(6.0 mils wet, 2.0 mils dry per coat)

c. Flat Finish

- 1st Coat: S-W Pro Industrial Waterborne Acrylic Dryfall Flat, B42-80 Series
2nd Coat: S-W Pro Industrial Waterborne Acrylic Dryfall Flat, B42-80 Series
(6.0 mils wet, 1.5 mils dry per coat)

** NOTE TO SPECIFIER** For High Performance Systems refer to 09 96 00
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E. METAL - Ferrous (Structural Steel Columns, Joists, Trusses, Beams, Miscellaneous & Ornamental Iron, Sashes, Doors, Partitions)

1. Latex Systems

a. Gloss Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Gloss Enamel, B21-12650 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Gloss Enamel, B21-12650 Series
(4.0 mils wet, 1.4 mils dry per coat)

Alternate:

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProClassic Waterborne Acrylic Gloss Enamel, B21-2100 Series
3rd Coat: S-W ProClassic Waterborne Acrylic Gloss Enamel, B21-2100 Series
(4.0 mils wet, 1.5 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
(4.0 mils wet, 1.5 mils dry per coat)

Alternate:

- 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer Off White, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProClassic® Waterborne Acrylic Semi-Gloss Enamel, B31-1100 Series
3rd Coat: S-W ProClassic Waterborne Acrylic Semi-Gloss Enamel, B23-1100 Series
(4.0 mils wet, 1.3 mils dry per coat)

E. METAL - Ferrous (Structural Steel Columns, Joists, Trusses, Beams, Miscellaneous & Ornamental Iron, Sashes, Doors, Partitions)

1. Latex Systems(cont)

c. Eg-Shel Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
3rd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate:

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-2600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-2600 Series
(4.0 mils wet, 1.7 mils dry per coat)

d. Low Sheen/Low Gloss Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 HP Zero VOC Latex Low Gloss Eg-Shel, B41-1900 Series
3rd Coat: S-W ProMar 200 HP Zero VOC Latex Low Gloss Eg-Shel, B41-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate:

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series
(4 mils wet, 1.6 mils dry per coat)

e. Flat Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series
(4.0 mils wet, 1.4 mils dry per coat)

2. Alkyd Systems (Waterbased Acrylic-Alkyd)

a. Gloss Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series
3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series
3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

c. Eg-Shel Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series
3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

E. METAL - Ferrous (Structural Steel Columns, Joists, Trusses, Beams, Miscellaneous & Ornamental Iron, Sashes, Doors, Partitions) (Cont.)

3. Alkyd Systems (Waterbased Urethane Modified Alkyd)

a. Gloss Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W Emerald Urethane Trim Enamel Gloss, K39-750 Series
- 3rd Coat: S-W Emerald Urethane Trim Enamel Gloss, K39-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series
- 3rd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

c. Satin Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series
- 3rd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

4. Dryfall Waterborne Topcoats

a. Semi-Gloss Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W Pro Industrial Waterborne Acrylic Dryfall Semi-Gloss, B42W00083
(5.8 mils wet, 2.3 mils dry per coat)

b. Eg-Shel Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W Pro Industrial Waterborne Acrylic Dryfall Eg-Shel, B42W00082
(6.0 mils wet, 1.9 mils dry per coat)

c. Flat Finish

- 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
(5-10 mils wet, 1.9-3.8 mils dry)
- 2nd Coat: S-W Pro Industrial Waterborne Acrylic Dryfall Flat, B42-80 Series
(6.0 mils wet, 1.5 mils dry per coat)

F. WOOD - (Walls, Ceilings, Doors, Trim, Partitions, Frames)

1. Latex Systems

a. High Gloss Finish

- 1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)
2nd Coat: S-W ProClassic Waterborne Acrylic High Gloss Enamel, B21W351
3rd Coat: S-W ProClassic Waterborne Acrylic High Gloss Enamel, B21W351
(4.0 mils wet, 1.5 mils dry per coat)

b. Gloss Finish

- 1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Gloss, B21-12650 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Gloss, B21-12650 Series
(4.0 mils wet, 1.4 mils dry per coat)

Alternate:

- 1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)
2nd Coat: S-W ProClassic Waterborne Acrylic Gloss Enamel, B21-2100 Series
3rd Coat: S-W ProClassic Waterborne Acrylic Gloss Enamel, B21-2100 Series
(4.0 mils wet, 1.5 mils dry per coat)

c. Semi-Gloss Finish

- 1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
(4.0 mils wet, 1.5 mils dry per coat)

Alternate:

- 1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)
2nd Coat: S-W ProClassic® Waterborne Acrylic Semi-Gloss Enamel, B31-1100 Series
3rd Coat: S-W ProClassic Waterborne Acrylic Semi-Gloss Enamel, B23-1100 Series
(4.0 mils wet, 1.3 mils dry per coat)

d. Eg-Shel Finish

- 1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)
2nd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
3rd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate:

- 1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-12600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-12600 Series
(4.0 mils wet, 1.7 mils dry per coat)

F. WOOD - (Walls, Ceilings, Doors, Trim, Partitions, Frames)(Cont.)

1. Latex Systems

e. Low Sheen/Low Gloss Finish

1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)

2nd Coat: S-W ProMar 200 HP Zero VOC Latex Low Gloss Eg-Shel, B41-1900 Series

3rd Coat: S-W ProMar 200 HP Zero VOC Latex Low Gloss Eg-Shel, B41-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate:

1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)

2nd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series

3rd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series
(4 mils wet, 1.6 mils dry per coat)

f. Flat Finish

1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)

2nd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series

3rd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series
(4.0 mils wet, 1.4 mils dry per coat)

2. Alkyd Systems (Waterbased Acrylic-Alkyd)

a. Gloss Finish

1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)

2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series

3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi-Gloss Finish

1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)

2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series

3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

c. Eg-Shel Finish

1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)

2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series

3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

F. WOOD - (Walls, Ceilings, Doors, Trim, Partitions, Frames)(Cont.)

3. Alkyd Systems (Waterbased Urethane Modified Alkyd)

a. Gloss Finish

1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)

2nd Coat: S-W Emerald Urethane Trim Enamel Gloss, K39-750 Series

3rd Coat: S-W Emerald Urethane Trim Enamel Gloss, K39-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi-Gloss Finish

1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)

2nd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series

3rd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

c. Satin Finish

1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
(4.0 mils wet, 1.6 mils dry)

2nd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series

3rd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

**** NOTE TO SPECIFIER** For High Performance Systems refer to 09 97 00**

G. DRYWALL (Walls, Ceilings, Gypsum Board, Plaster Board, etc.)

1. Latex Systems

a. Gloss

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Gloss, B21-12600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Gloss, B21-12600 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
(4.0 mils wet, 1.5 mils dry per coat)

Alternate:

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
2nd Coat: S-W Harmony® Interior Latex Semi-Gloss, B10 Series
3rd Coat: S-W Harmony® Interior Latex Semi-Gloss, B10 Series
(4 mils wet, 1.7 mils dry per coat)

c. Eg-Shel Finish

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
2nd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
3rd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
2nd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-2600 Series
3rd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-2600 Series
(4.0 mils wet, 1.7 mils dry per coat)

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
2nd Coat: S-W Harmony Interior Latex Eg-Shel, B9 Series
3rd Coat: S-W Harmony Interior Latex Eg-Shel, B9 Series
(4 mils wet, 1.7 mils dry per coat)

Microbicial[†] Finish

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
2nd Coat: S-W Paint Shield® Interior Latex Eg-Shel, D12W00051
3rd Coat: S-W Paint Shield® Interior Latex Eg-Shel, D12W00051
(4 mils wet, 1.8 mils dry per coat)

**** NOTE TO SPECIFIER**** [†]Paint Shield® Microbicial Paint is the first EPA-registered paint that kills greater than 99.9% *Staphylococcus aureus* (Staph), *Enterobacter aerogenes*, Methicillin-resistant *Staphylococcus aureus* (MRSA), Vancomycin-resistant *Enterococcus faecalis* (VRE), and *Escherichia coli* (E.coli) within 2 hours of exposure on a painted surface.

G. DRYWALL (Walls, Ceilings, Gypsum Board, Plaster Board, etc.)

1. Latex Systems

d. Low Sheen/Low Gloss Finish

1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)

2nd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, Low Gloss B41-1900 Series

3rd Coat: S-W ProMar 200 HP Zero VOC Latex Eg-Shel, Low Gloss B41-1900 Series
(4.0 mils wet, 1.7 mils dry per coat)

Alternate

1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)

2nd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series

3rd Coat: S-W ProMar 200 Zero VOC Latex Low Gloss Eg-Shel, B41-2600 Series
(4 mils wet, 1.6 mils dry per coat)

e. Flat Finish

1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)

2nd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series

3rd Coat: S-W ProMar 200 Zero VOC Latex Flat, B30-12600 Series
(4.0 mils wet, 1.4 mils dry per coat)

Alternate:

1st Coat: S-W Harmony Interior Latex Primer, B11W1500
(4.0 mils wet, 1.3 mils dry)

2nd Coat: S-W Harmony Interior Latex Flat, B05 Series

3rd Coat: S-W Harmony Interior Latex Flat, B05 Series
(4.0 mils wet, 1.7 mils dry per coat)

2. Alkyd Systems (Waterbased Acrylic-Alkyd)

a. Gloss Finish

1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)

2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series

3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Gloss, B35-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi- Gloss Finish

1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)

2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series

3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Semi-Gloss, B34-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

c. Eg-Shel Finish

1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)

2nd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series

3rd Coat: S-W ProMar 200 Waterbased Acrylic-Alkyd Eg-Shel, B33-8200 Series
(4.0 mils wet, 1.4 mils dry per coat)

G. DRYWALL (Walls, Ceilings, Gypsum Board, Plaster Board, etc.)

3. Alkyd Systems (Waterbased Urethane Modified Alkyd)

a. Gloss Finish

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
- 2nd Coat: S-W Emerald Urethane Trim Enamel Gloss, K39-750 Series
- 3rd Coat: S-W Emerald Urethane Trim Enamel Gloss, K39-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

b. Semi-Gloss Finish

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
- 2nd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series
- 3rd Coat: S-W Emerald Urethane Trim Enamel Semi-Gloss, K38-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

c. Satin Finish

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
- 2nd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series
- 3rd Coat: S-W Emerald Urethane Trim Enamel Satin, K37-750 Series
(4.0 mils wet, 1.4 mils dry per coat)

4. Texture Systems

a. Eg-Shel Finish

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
- 2nd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W00350
- 3rd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W00350
(100-200 sq ft/gal)

b. Flat Finish

- 1st Coat: S-W ProMar 200 Zero VOC Latex Primer, B28W2600
(4.0 mils wet, 1.0 mils dry)
- 2nd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W01050
- 3rd Coat: S-W Tuff Surface Acrylic Texture Finish, A44W01050
(100-200 sq ft/gal)

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 EDS 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.

(Specifier Note: Verify the existence of lead based paints on the project. Buildings constructed after 1978 are less likely to contain lead based paints. If lead based paints are suspected on the project, all removal must be done in accordance with the EPA Renovation, Repair and Painting rule and all applicable state and local regulations. State and local regulations may be more strict than those set under the federal regulations. Verify that Owner has completed a Hazardous Material Assessment Report for the project prior to issuing of Drawings. Concluding that no lead based paints were found on project site, delete this paragraph regarding lead based paints.)

3.2 SURFACE PREPARATION:

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. Removal must be done in accordance with EPA Renovation, Repair and Painting Rule and all related state and local regulations. Care should be taken to follow all state and local regulations which may be more strict than those set under the federal RRP Rule.

- 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. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.
- D Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised. Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, 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 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 manufacturer's 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 Drywall—Interior
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.
 - 6 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-SP16 is necessary to remove these treatments.

7 Plaster

Must be allowed to dry thoroughly for at least 30 days before painting, unless the products are designed to be used in high pH environments. Room must be ventilated while drying; in cold, damp weather, rooms must be heated. Damaged areas must be repaired with an appropriate patching material. Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of water. Repeat until the surface is hard, rinse with clear water and allow to dry.

8 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.

9 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.

10 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.

11 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.

12 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.

13 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.

14 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.

15 Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel, Stainless Steels, and Non-Ferrous Metals, SSPC-SP16

This standard covers the requirements for brush-off blast cleaning of uncoated or coated metal surfaces other than carbon steel by the use of abrasives. These requirements include visual verification of the end condition of the surface and materials and procedures necessary to achieve and verify the end condition. A brush-off blast cleaned non-ferrous metal surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, metal oxides (corrosion products), and other foreign matter. Intact, tightly adherent coating is permitted to remain. A coating is considered tightly adherent if it cannot be removed by lifting with a dull putty knife.

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-SP WJ-1/NACE WJ-1, Clean to Bare Substrate (WJ-1) is intended to be similar to the degree of surface cleanliness of SSPC-SP 5/NACE 1, except that stains are permitted to remain on the surface. This standard is used when the objective is to remove every trace of rust and other corrosion products, coating and mill scale.

SP WJ-2/NACE WJ-2, Very Thorough Cleaning (WJ-2) is intended to be similar to the degree of surface cleanliness of SSPC-SP 10/NACE 2, except that tightly adherent material, rather than only stains, is permitted to remain on the surface. This standard is used when the objective is to remove almost all rust and other corrosion products, coating, and mill scale.

SP WJ-3/NACE WJ-3, Thorough Cleaning (WJ-3) is intended to be similar to the degree of surface cleanliness of SSPC-SP 10/NACE 2, except that tightly adherent material, rather than only stains, is permitted to remain on the surface. This standard is used when the objective is to remove much of the rust and other corrosion products, coating, and mill scale, leaving tightly adherent thin films.

SSPC WJ-4/NACE WJ-4, Light Cleaning (WJ-4) is intended to be similar to the degree of surface cleanliness of SSPC-SP 10/NACE 2, except that tightly adherent material, rather than only stains, is permitted to remain on the surface. This standard is used when the objective is to allow as much of the tightly adherent rust and other corrosion products, coating, and mill scale to remain as possible, Discoloration of the surface may be present.

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 Wood

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.

3.3 INSTALLATION

- A Apply all coatings and materials with the manufacturer's specifications in mind. Mix and thin coatings according to manufacturer's recommendations.
- 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.
- 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, and uniform appearance.
- G 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

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

END OF SECTION04182018