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ISSUED JUNE 2021

09 91 13 - CARB EXTERIOR PAINTING

THE SHERWIN-WILLIAMS COMPANY

COMMERCIAL PAINTING SPECIFICATION GUIDE

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

CARB (California Air Resource Board) VOC (Volatile Organic Compound) regulations have been taken into consideration, but 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.To ensure compliance with district regulations and rules, businesses that perform coating activities in one or more areas of California should contact the local district in each area where the coating will be used. As of the date of printing all the Sherwin-Williams coatings in this specification are CARB compliant products as packaged.

If you need more specific information on a particular product, refer to the current Sherwin-Williams Painting Systems Catalog or the www.sherwin-williams.com website, or call our Architectural Services Department toll free.

For more information on coating rules applicable to CA locations go to
http://www.arb.ca.gov/coatings/coatingsrules.htm

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

EXTERIOR COMMERCIAL PAINTS AND COATINGS

Part 1 GENERAL

1.1 SECTION INCLUDES

A   Exterior paint and coating systems

1.2 RELATED SECTIONS

A   Section 05 05 13 - Shop Applied Coatings for Metal

B   Section 06 01 40 - Architectural Woodwork Refinishing

C   Section 06 05 83 - Shop Applied Wood Coatings

D   Section 07 19 00 - Water Repellents

E   Section 09 67 00 - Fluid Applied Flooring for Concrete

F   Section 09 93 00 - Stains and Transparent Finishes

G   Section 09 96 00 - High-Performance Coatings

1.3 REFERENCES

A   SSPC-SP 1 - Solvent Cleaning

B   SSPC-SP 2 - Hand Tool Cleaning

C   SSPC-SP 3 - Power Tool Cleaning

D   SSPC-SP 13 / NACE No. 6 Surface Preparation for Concrete

E   CARB (California Air Resources Board)

1.4   SUBMITTALS

A.   Submit under provisions of Section 01 33 00, Submittal Procedures.

B.   Product Data: Manufacturer's data sheets on each paint and coating product should include:

    1   Product characteristics
    2   Surface preparation instructions and recommendations
    3   Primer requirements and finish specification
    4   Storage and handling requirements and recommendations
    5   Application methods
    6   Clean-up Information
    7   VOCs

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.

E   Submit CARB compliant products only

1.5   MOCK-UP

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

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

1.6   DELIVERY, STORAGE, AND HANDLING

A.   Delivery: Deliver manufacturer's unopened containers to the work site. Packaging shall bear the manufacturer's name, label, and the following list of information:

    1   Product name, and type (description)
    2   Application & use instructions
    3   Surface preparation
    4   VOC content
    5   Environmental handling and SDS
    6   Batch date
    7   Color number

B.   Storage: Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.
Store materials in an area that is within the acceptable temperature range, per manufacturer's instructions. Protect from freezing.

C.   Handling: Maintain a clean, dry storage area to prevent contamination or damage to the coatings.

1.7   PROJECT CONDITIONS

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   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 (Non-Vehicular)
Metal- Aluminum/Galvanized
Metal Ferrous- Misc. Iron, Ornamental Iron
Wood- Decks, Floors, and Platforms (Non-Vehicular)
Wood- Siding, Trim, Shutters, Sash, and Misc. Hardboard
Architectural PVC, Plastic, Fiberglass-
Vinyl- Siding, EIFS, Synthetic Stucco
Drywall- Gypsum Board, and Exterior Drywall

2.3 SCHEDULE INDEX - EXTERIOR SURFACES (NORMAL EXPOSURE)

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.

NOTES TO SPECIFIER
- Specify the Pro Industrial line when higher performance is needed.
- *Loxon Self-Cleaning Acrylic Coating is formulated to be self-cleaning by shedding dirt upon rain or water contact.
- Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned with Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
- For higher performance on bare ferrous and non-ferrous handrails and touch objects specify at minimum an epoxy primer followed by a urethane finish.
- †Latitude is formulated with ClimateFlex Technology™, providing exceptional early moisture resistance and smooth application and appearance at extreme temperatures (application at 35°F-120°F (1.7°C - 48.8°C) air, surface and material temperatures) and is resistant to early dirt pick up.

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 and Masonry Primer, LX02 Series
                     (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, 1.5 mils dry per coat)

        Early Moisture Resistant Finish
        1st Coat: S-W Loxon® Concrete and Masonry Primer, LX02 Series
                     (8.0 mils wet, 3.2 dry)
        2nd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
        3rd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
                     (4.0 mils wet, 1.4 mils dry per coat)

    b.   Satin Finish
        1st Coat: S-W Loxon® Concrete and Masonry Primer, LX02 Series
                     (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, 1.4 mils dry per coat)

        Early Moisture Resistant Finish
        1st Coat: S-W Loxon® Concrete and Masonry Primer, LX02 Series
                     (8.0 mils wet, 3.2 mils dry)
        2nd Coat: S-W Latitude™ Acrylic Satin†, K62 Series
        3rd Coat: S-W Latitude™ Acrylic Satin†, K62 Series
                     (4.0 mils wet, 1.4 mils dry per coat)

        Self-Cleaning Acrylic Finish
        1st Coat: S-W Loxon® Concrete and Masonry Primer, LX02 Series
                     (8.0 mils wet, 3.2 mils dry)
        2nd Coat: S-W Loxon® Self-Cleaning Acrylic*, LX14 Series
        3rd Coat: S-W Loxon® Self-Cleaning Acrylic*, LX14 Series
                     (5.0-7.0 mils wet, 2.0-2.8 mils dry per coat)

        High Build Coating
        1st Coat: S-W Loxon® XP™, LX21 Series
                     (17.0-21.5 mils wet; 6.5-8.2 mils dry per coat)

    c.   Low Sheen Finish
        1st Coat: S-W Loxon® Concrete and Masonry Primer, LX02 Series
                     (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)

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

    d.   Flat Finish

        1st Coat: S-W Loxon® Concrete and Masonry Primer, LX02 Series
                    (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, 1.3 mils dry per coat)

        Self-Cleaning Acrylic Finish

        1st Coat: S-W Loxon® Concrete and Masonry Primer, LX02 Series
                    (8.0 mils wet, 3.2 mils dry)
        2nd Coat: S-W Loxon® Self-Cleaning Acrylic*, LX13 Series
        3rd Coat: S-W Loxon® Self-Cleaning Acrylic*, LX13 Series
                    (5.0-7.0 mils wet, 2.0-2.9 mils dry per coat)

        Early Moisture Resistant Finish

        1st Coat: S-W Loxon® Concrete and Masonry Primer, LX02 Series
                    (8.0 mils wet, 3.2 mils dry)
        2nd Coat: S-W Latitude™ Acrylic Flat†, K60 Series
        3rd Coat: S-W Latitude™ Acrylic Flat†, K60 Series
                    (4.0 mils wet, 1.4 mils dry per coat)

        High Build Coating

        1st Coat: S-W Loxon® XP™, LX11 Series
                    (14.5-18.5 mils wet; 6.5-8.4 mils dry per coat)

2.   Elastomeric Systems (Not Including: Cementitious Siding, Flexboard, Transite Board, Shingles (Non-Roof))

    a.   Flat Finish

        1st Coat: S-W Loxon® Concrete and Masonry Primer, LX02 Series
                    (8.0 mils wet, 3.2 mils dry)
        2nd Coat: S-W ConFlex™ XL Elastomeric High Build Coating, CF11 Series
        3rd Coat: S-W ConFlex™ XL Elastomeric High Build Coating, CF11 Series
                    (13.0-16.0 mils wet, 6.0-7.5 mils dry per coat)

        Alternate:

        1st Coat: S-W Loxon® Acrylic Block Surfacer, LX01 Series
                    (50-100 sq ft/gal)
        2nd Coat: S-W ConFlex™ SherLastic® Elastomeric Coating, CF16 Series
        3rd Coat: S-W ConFlex™ SherLastic® Elastomeric Coating, CF16 Series
                    (11.0-15.0 mils wet, 4.3-5.8 mils dry per coat)

> **Specifier Note:** For porous surfaces Loxon Acrylic Block Surfacer may be required to help achieve a pinhole free surface.

3.   Textured Elastomeric Systems

    a.   Textured Finish

        1st Coat: S-W Loxon® Concrete and Masonry Primer, LX02 Series
                    (8.0 mils wet, 3.2 mils dry)
        2nd Coat: S-W ConFlex™ XL Elastomeric High Build Coating, CF11 Series
                    (13.0-16.0 mils wet, 6.0-7.5 mils dry per coat)
        3rd Coat: S-W ConFlex™ XL Textured Elastomeric High Build Coating, CF12 Series
                    (Fine, Medium, Extra Coarse) (70-80 sq ft/gal)

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

4. Textured & Smooth Systems

    a. Textured (Waterbased Finish)

        1st Coat: S-W Loxon® Acrylic Block Surfacer, LX01 Series
                (50-100 sq ft/gal)
        2nd Coat: S-W ConFlex™ UltraCrete™ Texture Coating, CF17 Series
                (Fine, Medium, Extra Coarse) (50-80 sq ft/gal)

    b. Smooth (Waterbased Finish)

        1st Coat: S-W Loxon® XP, LX11 Series
        2nd Coat: S-W Loxon® XP, LX11 Series
                (14.5-18.5 mils wet, 6.5-8.4 mils dry per coat)

5. Stain Systems

    a. Solid Color (Waterborne Finish)

        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. Semi-Transparent (Waterborne Finish)

        1st Coat: S-W Loxon® Vertical Semi-Transparent Concrete Stain, LX31T Series
        2nd Coat: S-W Loxon® Vertical Semi-Transparent Concrete Stain, LX31T Series
                (150-400 sq ft/gal)

6. Clear Water Repellant

    a. Clear Waterborne

        1st Coat: S-W ConFlex™ Water Repellent 7% Siloxane, CF31 Series
        2nd Coat: S-W ConFlex™ Water Repellant 7% Siloxane, CF31 Series
                (25-200 sq ft/gal)

B. MASONRY - (Concrete Masonry Units, Cinder or Concrete Block)

1. Latex Systems

    a. Gloss Finish

        1st Coat: S-W ConFlex™ Block Filler, CF01 Series
                (75-100 sq ft/gal)
        2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series
        3rd Coat: S-W A-100® Exterior Latex Gloss, A8 Series
                (4.0 mils wet, 1.5 mils dry per coat)

        Early Moisture Resistant Finish

        1st Coat: S-W ConFlex™ Block Filler, CF01 Series
                (75-100 sq ft/gal)
        2nd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
        3rd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
                (4.0 mils wet, 1.4 mils dry per coat)

    b. Semi-Gloss Finish

        1st Coat: S-W ConFlex™ Block Filler, CF01 Series
                (75-100 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)

B. **MASONRY - (Concrete Masonry Units, Cinder or Concrete Block)**
1. **Latex Systems**
    c.   Satin Finish
           1st Coat: S-W ConFlex™ Block Filler, CF01 Series
                            (75-100 sq ft/gal)
           2nd Coat: S-W A-100® Exterior Latex Satin, A82 Series
           3rd Coat: S-W A-100® Exterior Latex Satin, A82 Series
                            (4.0 mils wet, 1.4 mils dry per coat)

           Early Moisture Resistant Finish
           1st Coat: S-W ConFlex™ Block Filler, CF01 Series
                            (75-100 sq ft/gal)
           2nd Coat: S-W Latitude™ Acrylic Satin†, K62 Series
           3rd Coat: S-W Latitude™ Acrylic Satin†, K62 Series
                            (4.0 mils wet, 1.4 mils dry per coat)

           Self-Cleaning Acrylic Finish
           1st Coat: S-W Loxon® Acrylic Block Surfacer, LX01 Series
                            (50-100 sq ft/gal)
           2nd Coat: S-W Loxon® Self-Cleaning Acrylic*, LX14 Series
           3rd Coat: S-W Loxon® Self-Cleaning Acrylic*, LX14 Series
                            (5.0-7.0 mils wet, 2.0-2.8 mils dry per coat

           High Build Coating
           1st Coat: S-W Loxon® Acrylic Block Surfacer, LX01 Series
                            (50-100 sq ft/gal)
           2nd Coat: S-W Loxon® XP, LX21 Series
                            (17.0-21.5 mils wet, 6.5-8.2 mils dry)

    d.   Low Sheen Finish
           1st Coat: S-W ConFlex™ Block Filler, CF01 Series
                            (75-100 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)

    e.   Flat Finish
           1st Coat: S-W ConFlex™ Block Filler, CF01 Series
                            (75-100 sq ft/gal)
           2nd Coat: S-W A-100® Exterior Latex Flat, A6 Series
           3rd Coat: S-W A-100® Exterior Latex Flat, A6 Series
                            (4.0 mils wet, 1.3 mils dry per coat)

           Self-Cleaning Acrylic Finish
           1st Coat: S-W Loxon® Acrylic Block Surfacer, LX01 Series
                            (50-100 sq ft/gal)
           2nd Coat: S-W Loxon® Self-Cleaning Acrylic*, LX13 Series
           3rd Coat: S-W Loxon® Self-Cleaning Acrylic*, LX13 Series
                            (5.0-7.0 mils wet, 2.0-2.9 mils dry per coat)

           Early Moisture Resistant Finish
           1st Coat: S-W ConFlex™ Block Filler, CF01 Series
                            (75-100 sq ft/gal)
           2nd Coat: S-W Latitude™ Acrylic Flat†, K60 Series
           3rd Coat: S-W Latitude™ Acrylic Flat†, K60 Series
                            (4.0 mils wet, 1.4 mils dry per coat)

B.   MASONRY - (Concrete Masonry Units, Cinder or Concrete Block) (Cont.)
1.   Latex Systems

      High Build Coating
      1st Coat: S-W Loxon® Acrylic Block Surfacer, LX01 Series
                  (50-100 sq ft/gal)
      2nd Coat: S-W Loxon® XP, LX11 Series
                  (14.5-18.5 mils wet, 6.5-8.4 mils dry)

2   Elastomeric System
    a.   Flat Finish
         1st Coat: S-W Loxon® Acrylic Block Surfacer, LX01 Series
                    (50-100 sq ft/gal)
         2nd Coat: S-W ConFlex™ XL Elastomeric High Build Coating, CF11 Series
         3rd Coat: S-W ConFlex™ XL Elastomeric High Build Coating, CF11 Series
                    (13.0-16.0 mils wet, 6.0-7.5 mils dry per coat)

         Alternate:
         1st Coat: S-W Loxon® Acrylic Block Surfacer, LX01 Series
                    (50-100 sq ft/gal)
         2nd Coat: S-W ConFlex™ SherLastic Elastomeric Coating, CF16 Series
         3rd Coat: S-W ConFlex™ SherLastic Elastomeric Coating, CF16 Series
                    (11.0-15.0 mils wet, 4.3-5.8 mils dry per coat)

3.   Textured Elastomeric System
    a.   Textured Finish
         1st Coat: S-W Loxon® Acrylic Block Surfacer, LX01 Series
                    (50-100 sq ft/gal)
         2nd Coat: S-W ConFlex™ XL Elastomeric High Build Coating, CF11 Series
                    (13.0-16.0 mils wet, 6.0-7.5 mils dry per coat)
         3rd Coat: S-W ConFlex™ XL Textured Elastomeric High Build Coating, CF12 Series
                    (Fine, Medium, Extra Coarse) (70-80 sq ft/gal)

4.   Textured & Smooth Masonry Systems
    a.   Textured (Water Based Finish)
         1st Coat: S-W Loxon® Acrylic Block Surfacer, LX01 Series
                    (50-100 sq ft/gal)
         2nd Coat: S-W ConFlex™ UltraCrete™ Textured Coating, CF17 Series
                    (Fine, Medium, Extra Coarse) (50-80 sq ft/gal)

    b.   Smooth (Water Based Finish)
         1st Coat: S-W Loxon® XP, LX11 Series
         2nd Coat: S-W Loxon® XP, LX11 Series
                    (14.5-18.5 mils wet, 6.5-8.4 mils dry per coat) 2nd coat optional

5.   Stain Systems
    a.   Solid Color (Waterborne Finish)
         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.   Semi-Transparent (Waterborne Finish)
          1st Coat: S-W Loxon® Vertical Semi-Transparent Concrete Stain, LX31T Series
         2nd Coat: S-W Loxon® Vertical Semi-Transparent Concrete Stain, LX31T Series
                    (150-400 sq ft/gal)

B.   MASONRY - (Concrete Masonry Units, Cinder or Concrete Block)
6.   Clear Water Repellant
   a.   Clear
           1st Coat: S-W ConFlex™ Water Repellant 7% Siloxane, CF31 Series
           2nd Coat: S-W ConFlex™ Water Repellant 7% Siloxane, CF31 Series
                       (25-200 sq ft/gal)

C.   CONCRETE - (Concrete Floors, Patios, Porches, Steps & Platforms, (Non-Vehicular))
1.   Acrylic Water-Based Systems
   a.   Gloss Finish
           1st Coat: S-W ConFlex™ Flexible Concrete Waterproofer, Smooth, CF14 Series
           2nd Coat: S-W ConFlex™ Flexible Concrete Waterproofer, Smooth, CF14 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
                       (200-300 sq/ft per gallon)

   b.   Satin 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)

   c.   Low Luster Finish
           1st Coat: S-W ConFlex™ Flexible Concrete Waterproofer, Smooth, CF14 Series
           2nd Coat: S-W ConFlex™ Flexible Concrete Waterproofer, Smooth, CF14 Series
                       (10.0-12.0 mils wet per coat)
           3rd Coat: SW H&C® Clarishield™ Water-Based Clear Sealer, Natural
           4th Coat: SW H&C® Clarishield™ Water-Based Clear Sealer, Natural
                       (200-300 sq ft/gal)

   d.   Flat Finish
           1st Coat: S-W ConFlex™ Flexible Concrete Waterproofer, Smooth, CF14 Series
           2nd Coat: S-W ConFlex™ Flexible Concrete Waterproofer, Smooth, CF14 Series
                       (10.0-12.0 mils wet per coat)

2.   Solid Color Stain
   a.   Low Luster Finish
           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
                       (50-300 sq ft/gal)

D. METAL – (Aluminum/Galvanized)
1. Latex Systems
    a.   Gloss Finish
        1st Coat: S-W A-100® Exterior Latex Gloss, A8 Series
        2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series
               (4.0 mils wet, 1.5 mils dry per coat)

        Early Moisture Resistant Finish
        2nd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
        3rd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
               (4.0 mils wet, 1.4 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, 1.4 mils dry per coat)

        Early Moisture Resistant Finish
        1st Coat: S-W Latitude™ Acrylic Satin†, K62 Series
        2nd Coat: S-W Latitude™ Acrylic Satin†, K62 Series
               (4.0 mils wet, 1.4 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, 1.3 mils dry per coat)

        Early Moisture Resistant Finish
        1st Coat: S-W Latitude™ Acrylic Flat†, K60 Series
        2nd Coat: S-W Latitude™ Acrylic Flat†, K60 Series
               (4.0 mils wet, 1.4 mils dry per coat)

D.   METAL – (Aluminum/Galvanized) (Cont.)
2.   Alkyd Systems (Waterbased Urethane Modified Alkyd)
   a.   Gloss Finish
          1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
                        (5.0 mils wet, 1.9 mils dry)
          2nd Coat: S-W Emerald® Urethane Trim Enamel Gloss, K39 Series
          3rd Coat: S-W Emerald® Urethane Trim Enamel Gloss, K39 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, B66-1300 Series
                        (5.0 mils wet, 1.9 mils dry)
          2nd Coat: S-W Emerald® Urethane Trim Enamel Semi-Gloss, K38 Series
          3rd Coat: S-W Emerald® Urethane Trim Enamel Semi-Gloss, K38 Series
                        (4.0 mils wet, 1.3 mils dry per coat)

   c.   Satin Finish
          1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
                        (5.0 mils wet, 1.9 mils dry)
          2nd Coat: S-W Emerald® Urethane Trim Enamel Satin, K37 Series
          3rd Coat: S-W Emerald® Urethane Trim Enamel Satin, K37 Series
                        (4.0 mils wet, 1.3 mils dry per coat)

** NOTE TO SPECIFIER**
- For High Performance Metal Systems refer to 09 96 00
- Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned with Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series
- For higher performance on bare ferrous and non-ferrous handrails and touch objects specify at minimum an epoxy primer followed by a Polyurethane finish.

E. **METAL - Ferrous (Structural Steel, Beams, Miscellaneous & Ornamental Iron, Sashes, Doors, Partitions, Trim)**
1. **Latex Systems**
    a.   Gloss Finish
         1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
                     (5.0 mils wet, 1.9 mils dry)
         2nd Coat: S-W Solo® Acrylic Gloss, A77 Series
         3rd Coat: S-W Solo® Acrylic Gloss, A77 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
                     (5.0 mils wet, 1.9 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)

2. **Alkyd Systems** (Waterbased Urethane Modified Alkyd)
    a.   Gloss Finish
         1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
                     (5.0 mils wet, 1.9 mils dry)
         2nd Coat: S-W Emerald® Urethane Trim Enamel Gloss, K39 Series
         3rd Coat: S-W Emerald® Urethane Trim Enamel Gloss, K39 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, B66-1300 Series
                     (5.0 mils wet, 1.9 mils dry)
         2nd Coat: S-W Emerald® Urethane Trim Enamel Semi-Gloss, K38 Series
         3rd Coat: S-W Emerald® Urethane Trim Enamel Semi-Gloss, K38 Series
                     (4.0 mils wet, 1.3 mils dry per coat)

    c.   Satin Finish
         1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
                     (5.0 mils wet, 1.9 mils dry)
         2nd Coat: S-W Emerald® Urethane Trim Enamel Satin, K37 Series
         3rd Coat: S-W Emerald® Urethane Trim Enamel Satin, K37 Series
                     (4.0 mils wet, 1.3 mils dry per coat)

** NOTE TO SPECIFIER**
- For High Performance Metal Systems refer to 09 96 00
- For higher performance on bare ferrous and non-ferrous handrails and touch objects specify at minimum an epoxy primer followed by a Polyurethane finish.

F. **WOOD – (Decks, 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 (Waterborne)
        1st Coat: S-W SuperDeck® Exterior Waterborne Solid Color Deck Stain, SD7-150
        2nd Coat: S-W SuperDeck® Exterior Waterborne Solid Color Deck Stain, SD7-150
                   (200-400 sq ft/gal)

    b.   Semi-Solid Stain (Waterborne)
        1st Coat: S-W SuperDeck® Exterior Waterborne Semi-Solid Stain, SD5T15
        2nd Coat: S-W SuperDeck® Exterior Waterborne Semi-Solid Stain, SD5T15
                   (100-350 sq ft/gal)

    c.   Semi-Transparent Stain (Waterborne)
        1st Coat: S-W SuperDeck® Exterior Waterborne Semi-Transparent Stain, SD3T25
        2nd Coat: S-W SuperDeck® Exterior Waterborne Semi-Transparent Stain, SD3T25
                   (100-350 sq ft/gal)

    d.   Semi-Transparent Stain (Modified-Oil)
        1st Coat: S-W SuperDeck® Exterior Semi-Transparent Stain, SD4C1115
                   (150-350 sq ft/gal)

    e.   Transparent Stain (Modified-Oil)
        1st Coat: S-W SuperDeck® Exterior Transparent Stain, SD2 Series
                   (200-400 sq ft/gal

    f.   Clear Stain (Waterborne)
        1st Coat: S-W SuperDeck® Exterior Waterborne Clear Sealer, SD1T100
        2nd Coat: S-W SuperDeck® Exterior Waterborne Clear Sealer, SD1T100
                   (150-300 sq ft/gal)

G. WOOD - (Siding, Trim, Shutters, Sashes, Doors, Hardboard-Bare/Primed)
1. Latex Systems

    a.   Gloss Finish

1st Coat:	S-W Exterior Latex Wood Primer, B42W8141
	(4.0 mils wet, 1.3 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, 1.5 mils dry per coat)

Early Moisture Resistant Finish

1st Coat:	S-W Exterior Latex Wood Primer, B42W8141
	(4.0 mils wet, 1.3 mils dry)
2nd Coat:	S-W Latitude™ Acrylic Gloss†, K64 Series
3rd Coat:	S-W Latitude™ Acrylic Gloss†, K64 Series
	(4.0 mils wet, 1.4 mils dry per coat)

    b.   Semi-Gloss Finish

1st Coat:	S-W Exterior Latex Wood Primer, B42W8141
	(4.0 mils wet, 1.3 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, B42W8141
	(4.0 mils wet, 1.3 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, 1.4 mils dry per coat)

Early Moisture Resistant Finish

1st Coat:	S-W Exterior Latex Wood Primer, B42W8141
	(4.0 mils wet, 1.3 mils dry)
2nd Coat:	S-W Latitude™ Acrylic Satin†, K62 Series
3rd Coat:	S-W Latitude™ Acrylic Satin†, K62 Series
	(4.0 mils wet, 1.4 mils dry per coat)

    d.   Low Sheen Finish

1st Coat:	S-W Exterior Latex Wood Primer, B42W8141
	(4.0 mils wet, 1.3 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, B42W8141
	(4.0 mils wet, 1.3 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, 1.3 mils dry per coat)

Early Moisture Resistant Finish

1st Coat:	S-W Exterior Latex Wood Primer, B42W8141
	(4.0 mils wet, 1.3 mils dry)
2nd Coat:	S-W Latitude™ Acrylic Flat†, K60 Series
3rd Coat:	S-W Latitude™ Acrylic Flat†, K60 Series
	(4.0 mils wet, 1.4 mils dry per coat)

G. **WOOD (Siding, Trim, Shutters, Sashes, Doors, Hardboard-Bare/Primed) (Cont.)**
2. **Stain - Water Reducible Systems**
    a.   Solid Color
        1st Coat: S-W WoodScapes® Solid Color Stain, A15 Series
        2nd Coat: S-W WoodScapes® Solid Color Stain, A15 Series
                    (200-400 sq ft/gal)

        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)

    b.   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)

        Semi-Transparent - Satin Finish
        1st Coat: S-W SuperDeck® Log Home & Deck Stain, SD8T200
        2nd Coat: S-W SuperDeck® Log Home & Deck Stain, SD8T200
                    (100-350 sq ft/gal)

H.   ARCHITECTURAL PVC^, PLASTIC, FIBERGLASS
(Due to the variety of substrates, check for compatibility)
1.   Latex Systems
    a.   Gloss Finish
        1st Coat: Extreme Bond™ Interior/Exterior Bonding Primer, B51W1150
             (3.1 mils wet, 1.0 mils dry)
        2nd Coat: S-W SuperPaint® Exterior Latex Gloss, A84 Series
        3rd Coat: S-W SuperPaint® Exterior Latex Gloss, A84 Series
             (4.0 mils wet, 1.5 mils dry per coat)

        Early Moisture Resistant Finish
        1st Coat: Extreme Bond™ Interior/Exterior Bonding Primer, B51W1150
             (3.1 mils wet, 1.0 mils dry)
        2nd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
        3rd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
             (4.0 mils wet, 1.4 mils dry per coat)

    b.   Satin Finish
        1st Coat: Extreme Bond™ Interior/Exterior Bonding Primer, B51W1150
             (3.1 mils wet, 1.0 mils dry)
        2nd Coat: S-W SuperPaint® Exterior Latex Satin, A89 Series
        3rd Coat: S-W SuperPaint® Exterior Latex Satin, A89 Series
             (4.0 mils wet, 1.5 mils dry per coat)

        Early Moisture Resistant Finish
        1st Coat: Extreme Bond™ Interior/Exterior Bonding Primer, B51W1150
             (3.1 mils wet, 1.0 mils dry)
        2nd Coat: S-W Latitude™ Acrylic Satin†, K62 Series
        3rd Coat: S-W Latitude™ Acrylic Satin†, K62 Series
             (4.0 mils wet, 1.4 mils dry per coat)

    c.   Low Lustre Finish
        1st Coat: Extreme Bond™ Interior/Exterior Bonding Primer, B51W1150
             (3.1 mils wet, 1.0 mils dry)
        2nd Coat: S-W SuperPaint® Exterior Latex Low Lustre, A78 Series
        3rd Coat: S-W SuperPaint® Exterior Latex Low Lustre, A78 Series
             (4.0 mils wet, 1.5 mils dry per coat)

    d.   Flat Finish
        1st Coat: Extreme Bond™ Interior/Exterior Bonding Primer, B51W1150
             (3.1 mils wet, 1.0 mils dry)
        2nd Coat: S-W SuperPaint® Exterior Latex Flat, A80 Series
        3rd Coat: S-W SuperPaint® Exterior Latex Flat, A80 Series
             (4.0 mils wet, 1.3 mils dry per coat)

        Early Moisture Resistant Finish
        1st Coat: Extreme Bond™ Interior/Exterior Bonding Primer, B51W1150
             (3.1 mils wet, 1.0 mils dry)
        2nd Coat: S-W Latitude™ Acrylic Flat†, K60 Series
        3rd Coat: S-W Latitude™ Acrylic Flat†, K60 Series
             (4.0 mils wet, 1.4 mils dry per coat)

I.   VINYL SIDING^, EIFS, SYNTHETIC STUCCO
1.   Latex Systems
    a.   Gloss Finish
        1st Coat: S-W SuperPaint® Exterior Latex Gloss, A84 Series
        2nd Coat: S-W SuperPaint® Exterior Latex Gloss, A84 Series
                (4.0 mils wet, 1.5 mils dry per coat)

        Early Moisture Resistant Finish
        2nd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
        3rd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
                (4.0 mils wet, 1.4 mils dry per coat)

    b.   Satin Finish
        1st Coat: S-W SuperPaint® Exterior Latex Satin, A89 Series
        2nd Coat: S-W SuperPaint® Exterior Latex Satin, A89 Series
                (4.0 mils wet, 1.5 mils dry per coat)

        Early Moisture Resistant Finish
        2nd Coat: S-W Latitude™ Acrylic Satin†, K62 Series
        3rd Coat: S-W Latitude™ Acrylic Satin†, K62 Series
                (4.0 mils wet, 1.4 mils dry per coat)

    c.   Low Lustre Finish
        1st Coat: S-W SuperPaint® Exterior Latex Low Lustre, A78 Series
        2nd Coat: S-W SuperPaint® Exterior Latex Low Lustre, A78 Series
                (4.0 mils wet, 1.5 mils dry per coat)

    d.   Flat Finish
        1st Coat: S-W SuperPaint® Exterior Latex Flat, A80 Series
        2nd Coat: S-W SuperPaint® Exterior Latex Flat, A80 Series
                (4.0 mils wet, 1.5 mils dry per coat)

        Early Moisture Resistant Finish
        2nd Coat: S-W Latitude™ Acrylic Flat†, K60 Series
        3rd Coat: S-W Latitude™ Acrylic Flat†, K60 Series
                (4.0 mils wet, 1.4 mils dry per coat)

** NOTE TO SPECIFIER**

^Vinyl or other PVC Building Products
Clean the surface thoroughly by scrubbing with warm, soapy water. Rinse thoroughly, if needed prime with appropriate white primer. Do not paint vinyl with any color darker than the original color. Do not paint vinyl with a color having a Light Reflective Value (LRV) of less than 56 unless VinylSafe® Colors are used. Painting with darker colors lower than an LRV of 56 may cause vinyl to warp. Follow all painting guidelines of the vinyl manufacturer when painting. Only paint properly installed vinyl siding. Deviating from the manufacturer's painting guidelines may cause the warranty to be voided.
VinylSafe™ paint colors allow you the freedom to choose from 100 color options, including a limited selection of darker colors formulated to resist warping or buckling when applied to a sound, stable vinyl substrate.

J.   DRYWALL - (Gypsum Board, Exterior Drywall)
1.   Latex Systems
    a.   Gloss Finish
            1st Coat: S-W PrepRite® ProBlock® Interior/Exterior Latex Primer, B51-600 Series
                         (4.0 mils wet, 1.4 mils dry)
            2nd Coat: S-W A-100® Exterior Latex Gloss, A8 Series
            3rd Coat: S-W A-100® Exterior Latex Gloss, A8 Series
                         (4.0 mils wet, 1.5 mils dry per coat)

            Early Moisture Resistant Finish
            1st Coat: S-W PrepRite® ProBlock® Interior/Exterior Latex Primer, B51-600 Series
                         (4.0 mils wet, 1.4 mils dry)
            2nd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
            3rd Coat: S-W Latitude™ Acrylic Gloss†, K64 Series
                         (4.0 mils wet, 1.4 mils dry per coat)

    b.   Semi-Gloss
            1st Coat: S-W PrepRite® ProBlock® Interior/Exterior Latex Primer, B51-600 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® Interior/Exterior Latex Primer, B51-600 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, 1.4 mils dry per coat)

            Early Moisture Resistant Finish
            1st Coat: S-W PrepRite® ProBlock® Interior/Exterior Latex Primer, B51-600 Series
                         (4.0 mils wet, 1.4 mils dry)
            2nd Coat: S-W Latitude™ Acrylic Satin†, K62 Series
            3rd Coat: S-W Latitude™ Acrylic Satin†, K62 Series
                         (4.0 mils wet, 1.4 mils dry per coat)

    d.   Low Sheen Finish
            1st Coat: S-W PrepRite® ProBlock® Interior/Exterior Latex Primer, B51-600 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® Interior/Exterior Latex Primer, B51-600 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, 1.3 mils dry per coat)

            Early Moisture Resistant Finish
            1st Coat: S-W PrepRite® ProBlock® Interior/Exterior Latex Primer, B51-600 Series
                         (4.0 mils wet, 1.4 mils dry)
            2nd Coat: S-W Latitude™ Acrylic Flat†, K60 Series
            3rd Coat: S-W Latitude™ Acrylic Flat†, K60 Series
                         (4.0 mils wet, 1.4 mils dry per coat)

2.4 MATERIALS - GENERAL REQUIREMENTS

A   Paints and Coatings - General:
1   Unless otherwise indicated, provide factory-mixed coatings. When required, mix coatings to correct consistency in accordance with manufacturer's instructions before application. Do not reduce, thin, or dilute coatings or add materials to coatings unless such a procedure is specifically described in manufacturer's product instructions. VOCs need to be confirmed by using the products EDS sheets.

2   Requirements:
Complies with current CARB rules

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 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.

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. 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 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—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.

6   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.

7   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.

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 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.

19 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.

20 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.

21 Vinyl Siding, Architectural Plastics & Fiberglass or other PVC, plastic building products. Clean the surface thoroughly by scrubbing with warm, soapy water. Rinse thoroughly, prime with appropriate white primer. Do not paint vinyl with any color darker than the original color. Do not paint vinyl with a color having a Light Reflective Value (LRV) of less than 56 unless VinylSafe® Colors are used. If VinylSafe® Colors are not used and darker colors lower than an LRV of 56 are, the vinly may warp. Follow all painting guidelines of the vinyl manufacturer when painting. Only paint properly installed vinyl siding. Deviating from the manufacturer's painting guidelines may cause the warranty to be voided.

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

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

END OF SECTION06172021