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09 93 13 EXTERIOR STAINS & TRANSPARENT FINISHES

THE SHERWIN-WILLIAMS COMPANY

COMMERCIAL PAINTING SPECIFICATION GUIDE

EXTERIOR

This Painting Schedule is furnished only as a guide to select exterior stains, and transparent 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 a given project and its respective location.

The schedule is arranged by systems, and offers latex, acrylic, alkyd, and water-reducible coatings. Each system also includes the various degrees of gloss available.

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 that 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 VOC's. 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 93 13

Exterior Stains and Transparent Finishes



Part 1 GENERAL

1.1 SECTION INCLUDES

- A Exterior stains, transparent, and semi-transparent finishes

1.2 RELATED SECTIONS

- A Section 03 35 00 - Concrete Finishes
- B Section 03 01 00 - Maintenance of Concrete
- C Section 07 19 00 - Water Repellents
- D Section 09 60 00 - Floor Treatments
- E Section 09 61 19 - Concrete Floor Staining
- F Section 09 67 00 - Fluid Applied Flooring for Concrete
- G Section 09 9100 - Painting
- H 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 ASTM F1869 - Moisture Test by use of Calcium Chloride
- F ASTM D4258 - Standard Practice for Cleaning Concrete
- G ASTM D4259 - Standard Practice for Abrading Concrete
- H ASTM D4260 - Standard Practice for Etching Concrete
- I ASTM D4263 - Plastic Sheet Method for Checking Moisture in Concrete
- J ICRI #310.2 - Surface Preparation of 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 Cleanup information
- C. Selection Samples: Submit a complete set of color chips that represent the full range of manufacture'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:
 - 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 are 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:

Masonry Exterior Systems - Opaque
Masonry Exterior Systems- Transparent
Masonry Exterior Systems- Semi-Transparent
Masonry Exterior Floors- Opaque-Transparent
Wood Exterior Systems - Opaque
Wood Exterior Systems - Semi-Transparent
Wood Exterior Systems - Decks

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[DATA PAGES 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.**

2.3 SCHEDULE

A Masonry Exterior Systems (vertical) - Opaque

1. Acrylic System

- a Solid Color Acrylic Latex
 - 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)

Alternate:

- 1st Coat: S-W H&C® COLORTOP™ Water-Based Solid Color Concrete Stain
- 2nd Coat: S-W H&C® COLORTOP™ Water-Based Solid Color Concrete Stain
(50-300 sq ft/gal)

2. Silicone Acrylic System

- a Silicone Acrylic System
 - 1st Coat: S-W H&C® COLORTOP™ Solvent-Based Solid Color Concrete Sealer
 - 2nd Coat: S-W H&C® COLORTOP™ Solvent-Based Solid Color Concrete Sealer
(75-250 sq ft/gal)

B Masonry Exterior Systems (vertical) – Semi-Transparent

1. Acrylic System

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

C Masonry Exterior Systems (vertical) - Transparent

1. Latex System

- a Transparent Finish
 - 1st Coat: S-W H&C® HYDRO-DEFEND® Water-Based Concrete & Masonry Sealer Clear
 - 2nd Coat: S-W H&C® HYDRO-DEFEND® Water-Based Concrete & Masonry Sealer Clear
(Optional)
(50-300 sq ft/gal)

2. Acrylic System

- a Transparent Finish
 - 1st Coat: S-W H&C® CLARISHIELD® Water-Based Concrete Sealer Wet-Look
 - 2nd Coat: S-W H&C® CLARISHIELD® Water-Based Concrete Sealer Wet-Look
(75-300 sq ft/gal)

3. Silicone Acrylic System

- a Transparent Finish
 - 1st Coat: S-W H&C® CLARISHIELD® Oil-Based Concrete Sealer
 - 2nd Coat: S-W H&C® CLARISHIELD® Oil-Based Concrete Sealer
(50-300 sq ft/gal)

D Masonry Exterior: Floors

1. Acrylic System: Opaque

a Solid Color Acrylic Latex

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)

2. Silicone Acrylic System: Opaque

a Silicone Acrylic System

1st Coat: S-W H&C® COLORTOP™ Solvent-Based Solid Color Concrete Sealer

2nd Coat: S-W H&C® COLORTOP™ Solvent-Based Solid Color Concrete Sealer
(75-250 sq ft/gal)

3. Latex System: Transparent

a Transparent Finish

1st Coat: S-W H&C® HYDRO-DEFEND® Water-Based Concrete & Masonry Sealer Clear

2nd Coat: S-W H&C® HYDRO-DEFEND® Water-Based Concrete & Masonry Sealer Clear
(Optional)
(50-300 sq ft/gal)

4. Acrylic Systems: Transparent

a Transparent Finish

1st Coat: S-W H&C® CLARISHIELD® Water-Based Concrete Sealer Wet-Look

2nd Coat: S-W H&C® CLARISHIELD® Water-Based Concrete Sealer Wet-Look
(75-300 sq ft/gal)

5. Silicone Acrylic System: Transparent

a Transparent Finish

1st Coat: S-W H&C® CLARISHIELD® Oil-Based Concrete Sealer

2nd Coat: S-W H&C® CLARISHIELD® Oil-Based Concrete Sealer
(50-300 sq ft/gal)

E Wood Exterior Systems (vertical) - Opaque

1. Latex Systems

a Solid Color Acrylic Latex

(If severe tannin Bleeding occurs, use Exterior Oil-Based Wood Primer, Y24W8020)

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:

(If tannin bleeding occurs, use Exterior Oil-Based Wood Primer, Y24W8020)

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)

F Wood Exterior System (vertical) - Semi-Transparent

1. Latex System

a Semi-Transparent Finish

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)

G Wood Exterior Systems (horizontal deck)

1. Solid Color Stain System

a Solid Color Acrylic Latex (Waterborne)

1st Coat: S-W SuperDeck® Exterior Waterborne Solid Color Deck Stain, SD7-150 Series

2nd Coat: S-W SuperDeck® Exterior Waterborne Solid Color Deck Stain, SD7-150 Series
(200-400 sq ft/gal)

b. Solid Color (Acrylic-Alkyd)

1st Coat: S-W SuperDeck® Exterior Acrylic-Alkyd Solid Color Deck Stain, SD9-600 Series

2nd Coat: S-W SuperDeck® Exterior Acrylic-Alkyd Solid Color Deck Stain, SD9-600 Series
(250-400 sq ft/gal)

2. Semi-Solid Stain System

a Semi-Solid Stain (Waterborne)

1st Coat: S-W SuperDeck® Exterior Waterborne Semi-Solid Color Stain, SD5T15

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

3. Semi-Transparent Stain Systems

a 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)

b Semi-Transparent Stain (Oil-Based)

1st Coat: S-W SuperDeck® Exterior Oil-Based Semi-Transparent Stain, SD4C1125
(150-400 sq ft/gal)

c. Semi-Transparent Stain (Modified-Oil)

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

4. Transparent Stain System

a Transparent Stain (Oil-Based)

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

b. Transparent Stain (Modified-Oil)

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

5. Clear Sealer System

a Clear Sealer

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)

2.4 MATERIALS - GENERAL REQUIREMENTS

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

2.5 ACCESSORIES:

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

PART 3 EXECUTION

3.1 EXAMINATION

- A Do not begin application of coatings until substrates have been properly 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. 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 household bleach and 3-parts of warm water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry at least 48 hours before painting. Wear protective glasses or goggles, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.
- E No exterior painting should be done immediately after a rain, during foggy weather, when rain is predicted, or when the temperature is below 50°F, unless products are designed specifically for these conditions.
- F Methods:
 - 1 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. Patching compounds will generally be visible through clear coatings.
 - 2 Concrete - Bare:
New concrete must be cured (28 days min.). If the concrete feels like 120-grit sandpaper, the pores are open enough for this product to bond properly with the substrate. If the surface does not have this texture, etch the surface (unless acid staining). Rough textured concrete does not need to be etched. Do not etch painted surfaces. Prepared concrete should have a pH between 7 and 10. Not adequately degreasing, etching, or allowing the substrate to dry completely will result in poor adhesion.
 - 3 Repair:
For the best waterproofing protection on exterior, vertical concrete and masonry, patch and repair cracks and crevices where water can enter with the appropriate Loxon sealant or patching compounds.
 - 4 Slip Resistance:
Some surfaces such as inclined driveways, garages, steps, patios, etc., may require a slip resistant additive for safety. Add H&C SharkGrip® Slip Resistant Additive to the final coat applied following label directions. This product should not be used in place of a non-skid finish.

3.3 INSTALLATION

- A Testing: Due to the wide variety of substrates, preparation methods, application methods and environments, one should test the product in an inconspicuous spot for adhesion and compatibility prior to full-scale application.
- B Apply all coatings and materials with manufacturer's specifications in mind. Mix and thin coatings according to manufacturer's recommendation.
- C 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
- D Apply coatings using methods recommended by manufacturer.
- E Uniformly apply coatings without runs, drips, or sags, without brush marks, and with consistent sheen.
- F Apply coatings at spreading rate required to achieve the manufacturer's recommended dry film thickness.
- G Regardless of number of coats specified, apply as many coats as necessary for complete hide and uniform appearance.
- H 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.
- I 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 Stain & Transparent Finishes), otherwise delete this section.

END OF SECTION06042021