

PART 1 GENERAL**1.1 SUMMARY**

- A. Section includes surface preparation and field application of paints.

1.2 REFERENCES

- A. American Society for Testing and Materials:
- B. ASTM D16 - Standard Terminology Relating to Paint, Varnish, Lacquer, and Related Products.
- C. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials.
- D. Painting and Decorating Contractors of America:
 - 1. PDCA - Architectural Painting Specification Manual.

1.3 DEFINITIONS

- A. Conform to ASTM D16 for interpretation of terms used in this section.

1.4 SUBMITTALS

- A. Section 01330 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit data on finishing products.
- C. Samples: Submit two painted samples, illustrating selected colors and textures for each color and system selected with specified coats cascaded. Submit on aluminum sheet tempered cardboard 8 x 10 inch in size.

1.5 CLOSEOUT SUBMITTALS

- A. Section 01700 - Execution Requirements: Closeout procedures.
- B. Operation and Maintenance Data: Submit data on cleaning, touch-up, and repair of painted and coated surfaces.

1.6 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.
- B. Applicator: Company specializing in performing work of this section with minimum five years documented experience approved by manufacturer.

1.7 PRE-INSTALLATION MEETINGS

- A. Section 01300 - Administrative Requirements: Pre-installation meeting.
- B. Convene minimum one week prior to commencing work of this section.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Section 01600 - Product Requirements: Product storage and handling requirements.
- B. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- C. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- D. Paint Materials: Store at minimum ambient temperature of 45 degrees F and maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.
- E. Take precautionary measures to prevent fire hazards and spontaneous combustion.

1.9 ENVIRONMENTAL REQUIREMENTS

- A. Section 01600 - Product Requirements.
- B. Do not apply materials when surface and ambient temperatures are outside temperature ranges required by paint product manufacturer.
- C. Do not apply exterior coatings during rain or snow when relative humidity is outside humidity ranges, or moisture content of surfaces exceed those required by paint product manufacturer.
- D. Minimum Application Temperatures for Latex Paints: 45 degrees F for interiors; 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.
- E. Minimum Application Temperature for Varnish and Other Finishes: 65 degrees F for interior or exterior, unless required otherwise by manufacturer's instructions.
- F. Provide lighting level of 80 ft candle measured mid-height at substrate surface.

1.10 SEQUENCING

- A. Section 01100 - Summary: Work sequence.
- B. Sequence application to the following:
- C. Do not apply finish coats until paintable sealant is applied.
- D. Back prime wood trim before installation of trim.

1.11 WARRANTY

- A. Section 01700 - Execution Requirements: Product warranties and product bonds.
- B. Furnish five year manufacturer warranty for paints and coatings.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Sherwin-Williams
- B. Substitutions: Section 01600 - Product Requirements

2.2 COMPONENTS

- A. Coatings: Ready mixed, except field catalyzed coatings. Prepare coatings:
- B. To soft paste consistency, capable of being readily and uniformly dispersed to homogeneous coating.
- C. For good flow and brushing properties.
- D. Capable of drying or curing free of streaks or sags.
- E. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve finishes specified; commercial quality.
- F. Patching Materials: Latex filler.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01300 - Administrative Requirements: Coordination and project conditions.
- B. Verify substrate conditions are ready to receive Work as instructed by product manufacturer. Beginning of application means acceptance of substrates.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report conditions capable of affecting proper application.
- D. Test shop applied primer for compatibility with subsequent cover materials.
- E. Measure moisture content of surfaces using electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:

1. Plaster and Gypsum Wallboard: 12 percent.
2. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
3. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
4. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.
5. Concrete Floors: 8 percent.

3.2 PREPARATION

- A. Surface Appurtenances: Remove or mask electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing.
- B. Surfaces: Correct defects and clean surfaces capable of affecting work of this section. Remove or repair existing coatings exhibiting surface defects.
- C. Marks: Seal with shellac those which may bleed through surface finishes.
- D. Impervious Surfaces: Remove mildew by scrubbing with solution of tri-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- E. Aluminum Surfaces Scheduled for Paint Finish: Remove surface contamination by steam or high pressure water. Remove oxidation with acid etch and solvent washing. Apply etching primer immediately following cleaning.
- F. Asphalt, Creosote, or Bituminous Surfaces Scheduled for Paint Finish: Remove foreign particles to permit adhesion of finishing materials. Apply latex based compatible sealer or primer.
- G. Insulated Coverings: Remove dirt, grease, and oil from canvas and cotton.
- H. Concrete Floors: Remove contamination, acid etch, and rinse floors with clear water. Verify required acid-alkali balance is achieved. Allow to dry.
- I. Gypsum Board Surfaces: Fill minor defects with filler compound. Spot prime defects after repair.
- J. Galvanized Surfaces: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
- K. Concrete and Unit Masonry Surfaces Scheduled to Receive Paint Finish: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.
- L. Plaster Surfaces: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
- M. Uncoated Steel and Iron Surfaces: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by wire brushing or sandblasting; clean by washing with solvent. Apply treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Spot prime paint after repairs.
- N. Shop Primed Steel Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Prime metal items including shop primed items.
- O. Interior Wood Items Scheduled to Receive Paint Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats.
- P. Interior Wood Items Scheduled to Receive Transparent Finish: Wipe off dust and grit prior to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after sealer has dried; sand lightly between coats.
- Q. Exterior Wood Scheduled to Receive Paint Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior paintable caulking compound after prime coat has been applied.

- R. Exterior Wood Scheduled to Receive Transparent Finish: Remove dust, grit, and foreign matter; seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes with tinted exterior caulking compound after sealer has been applied.
- T. Metal Doors Scheduled for Painting: Prime metal door top and bottom edge surfaces.
- U. Wood Doors: Seal field trimmed edges of wood doors.

3.3 EXISTING WORK

- A. Extend existing paint and coatings installations using materials and methods compatible with existing installations and as specified.

3.4 APPLICATION

- A. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- B. Apply each coat to uniform appearance. Apply each coat of paint slightly darker than preceding coat unless specified otherwise.
- C. Sand wood surfaces lightly between coats to achieve required finish.
- D. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- E. Where clear finishes are required, tint fillers to match wood. Work fillers into grain before set. Wipe excess from surface.
- F. Prime concealed surfaces of interior and exterior woodwork with primer paint.
- G. Prime concealed surfaces of interior wood surfaces scheduled to receive stain or varnish finish with gloss varnish reduced 25 percent with thinner.

3.5 FIELD QUALITY CONTROL

- A. Section 01700 - Execution Requirements: Testing, adjusting, and balancing.

3.6 CLEANING

- A. Section 01700 - Execution Requirements: Final cleaning.
- B. Collect waste material which may constitute fire hazard, place in closed metal containers, and remove daily from site.

3.7 PAINTING

- A. Perform all work in accordance with PDCA Architectural Painting Specification Manual unless modified by this specification.
- B. Verify with Architect any surfaces to be painted not noted in this Specification. It is the specific intent of this Section that new and existing exposed surfaces normally painted or finished be given at least two coats of appropriate paint unless otherwise noted. Where a wall or ceiling is scheduled to be painted, paint all surfaces including frames, panels, doors, etc., in the ceiling or wall. Apply one coat sealer on walls behind cabinets.
- C. All vents, fans, ducts, hoods, pipes, etc., penetrating roof or exterior walls shall be painted.
- D. Paint all grilles and other prefinished items where the factory prefinish is not in accordance with the Painting Schedule and color selection.
- E. Paint exterior items including signage, bench supports, screen supports, gratings, exposed flashings and steel fabrications.
- F. Paint surfaces to receive wallcoverings one coat primer/sealer compatible with covering.
- G. All surfaces to be stained shall be finished by wiping, to eliminate stain build-up and shiny spots.
- H. All doors and frames shall be finished on all surfaces, including edges.
- I. Prepare and finish selected salvaged items shown in drawings and Salvage Schedule.

- J. Only the inspected and approved coats of paint will be considered in determining the number of coats shown as required to “cover” surface and eliminate shadowing, holidays and thin spots.
- K. All painting shall be accomplished in conformance with the Architect’s Color Schedule before proceeding with painting.
- L. Paint Owner-Furnished items installed by Contractor.
- M. Omit primer on factory or shop primed items. Finish paint all primed items.

3.8 INTERIOR PAINTING SCHEDULE (SHERWIN WILLIAMS NUMBERS UNLESS OTHERWISE NOTED)

- P.101 Concrete Masonry Units (General)
 - First Coat Bloxfil Acrylic Block Filler Devoe DC4000
 - Second Coat Harmony Interior Eggshell, B09W00551
 - Third Coat Harmony Interior Eggshell, B09W00551

- P.102 Hollow Metal Work and Miscellaneous Ferrous Metal
 - First Coat Devguard Alkyd Primer DC4360
 - Second Coat Harmony Interior Semi-Gloss, B10W00551
 - Third Coat Harmony Interior Semi-Gloss, B10W00551

- P.103 Painted Wood
 - First Coat Premium Wall & Wood Primer B28W08111
 - Second Coat Harmony Interior Semi-Gloss, B10W00551
 - Third Coat Harmony Interior Semi-Gloss, B10W00551

- P.104 Gypsum Wallboard (All surfaces to be smooth)
 - First Coat S-W Harmony Interior Latex Primer, B11 Series (4.0 mils wet, 1.3 mils dry)
 - Second Coat S-W Harmony Interior Latex Flat, B5 Series
 - Third Coat S-W Harmony Interior Latex Flat, B5 Series (4.0 mils wet, 1.8 mils dry per coat)

END OF SECTION