

SECTION 09931 - WOOD STAINS AND TRANSPARENT FINISHES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes surface preparation and the application of wood finishes on the following substrates:
 - 1. Interior Substrates:
 - a. White Oak trim.
 - b. White Oak casework.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples: For each finish and for each color and texture required.
 - 1. Submit samples on representative samples of actual wood substrates, 8 inches (200 mm) square.
 - 2. Label each Sample for location and application area.

1.3 QUALITY ASSURANCE

- A. Applicator Qualifications: A firm or individual experienced in applying interior wood stains similar in material, design and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance.
- B. Source Limitations: Obtain primers, stains and other finishes through one source from a single manufacturer.
- C. Mockups: Apply benchmark samples of each finish system indicated and each color selected to verify preliminary selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Architect will select one surface to represent surfaces and conditions for application of each type of finish system and substrate.
 - a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft. (9 sq. m).
 - b. Other Items: Architect will designate items or areas required.
 - 2. Final approval of stain color selections will be based on benchmark samples.
 - a. If preliminary stain color selections are not approved, apply additional benchmark samples of additional stain colors selected by Architect at no added cost to Owner.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide one of the products listed in other Part 2 articles.
- B. Manufacturers' Names: Shortened versions (shown in parentheses) of the following manufacturers' names are used in other Part 2 articles:
 - 1. Benjamin Moore & Co. (Benjamin Moore).
 - 2. ICI Paints (ICI Paints).
 - 3. PPG Architectural Finishes, Inc. (Pittsburgh Paints).
 - 4. Sherwin-Williams Company (The) (Sherman-Williams).
 - 5. Samuel Cabot, Inc. (Samuel Cabot).

2.2 MATERIALS, GENERAL

- A. Material Compatibility:
 - 1. Provide materials for use within each finish system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a finish system, provide products recommended in writing by manufacturers of topcoat for use in finish system and on substrate indicated.

- B. Stain Colors: As selected by Architect from manufacturer's full range.

2.3 INTERIOR WOOD STAINS AND VARNISHES

- A. Interior Wood Stain: Alkyd based.
 - 1. Benjamin Moore; Benwood Penetrating Stain No. 234.
 - 2. Coronado; 3601-Line Quick-Seal Alkyd Stain.
 - 3. ICI Paints; 1700-XXX Wood Pride Interior Solventborne Wood Finishing Stain.
 - 4. Pittsburgh Paints; 77-560 Rez Interior Semi-Transparent Oil Stain.
 - 5. Sherwin-Williams; Wood Classics Interior Oil Stain A-48 Series.
- B. Clear Sanding Sealer: Fast-drying alkyd based.
 - 1. Benjamin Moore; Moore's Interior Wood Finishes Quick-Dry Sanding Sealer No. 413.
 - 2. Coronado; 81-10 Dual Seal.
 - 3. ICI Paints; 1902-0000 WoodPride Interior Satin Polyurethane Varnish.
 - 4. Pittsburgh Paints; 6-10 SpeedHide Quick-Drying Interior Sanding Wood Sealer and Finish.
 - 5. Sherwin-Williams; Wood Classics Fast Dry Sanding Sealer B26V43.
- C. Interior Alkyd- or Polyurethane-Based Clear Stain Varnish:
 - 1. Benjamin Moore; Benwood Interior Wood Finishes Polyurethane Finishes Low Lustre No. 435.
 - 2. Coronado; 67-100 Polyurethane Liquid Plastic Satin Varnish.
 - 3. ICI Paints; 1902-0000 WoodPride Interior Satin Polyurethane Varnish.
 - 4. Pittsburgh Paints; 77-7 Rez Varnish, Interior Satin Oil Clear.
 - 5. Sherwin-Williams; Wood Classics Fast Dry Oil Varnish, Satin A66-300 Series.
- D. All transparent woodwork including, but not limited to the following: trim, steps and riser, and exposed structural lumber's final finish shall match according to Architect's stain selection.
- E. All woodwork finishing material shall prove compatibility with pre-engineered manufacturer's glue and adhesives.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.
 - 1. Maximum Moisture Content of Wood Substrates: 15 percent when measured with an electronic moisture meter.
 - 2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes.
 - 3. Begin finish application only after unsatisfactory conditions have been corrected and surfaces are dry.
 - 4. Beginning application of finish system constitutes Contractor's acceptance of substrate and conditions.

3.2 PREPARATION AND APPLICATION

- A. Comply with manufacturer's written instructions and recommendations applicable to substrates indicated.
- B. Remove plates, machined surfaces, and similar items already in place that are not to be finished. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and finishing.
 - 1. After completing finishing operations, reinstall items that were removed; use workers skilled in the trades involved. Remove surface-applied protection if any.
- C. Clean and prepare surfaces to be finished according to manufacturer's written instructions for each particular substrate condition and as specified.
 - 1. Remove surface dirt, oil, or grease by washing with a detergent solution; rinse thoroughly with clean water and allow to dry. Remove grade stamps and pencil marks by sanding lightly. Remove loose wood fibers by brushing.
 - 2. Remove mildew by scrubbing with a commercial wash formulated for mildew removal and as recommended by stain manufacturer.
 - 3. Countersink steel nails, if used, and fill with putty tinted to final color to eliminate rust leach stains.
 - 4. Previously Stained Work: Renail loose or warped shingles or siding using galvanized or aluminum nails.

- D. Apply stain evenly with brush, roller, or spray. Thoroughly stain edges and ends of boards. Brush out excess stain that collects in butts of shingles or boards. Avoid staining in direct sunlight.
 - 1. Brushes: Use brushes best suited for type of material applied. Use brushes of appropriate size for surface being stained.
 - 2. Rollers: Use rollers of carpet, velvet-back, or high-pile sheep's wool as recommended by stain manufacturer.
 - 3. Spraying: Use airless or conventional air-atomizing high-pressure spraying equipment with orifice size as recommended by stain manufacturer. Ensure that an adequate amount of stain is applied to surface. Use a 40- to 60-degree fan angle. Back-brush immediately after each section is coated.
 - 4. Vertical Siding: Start at the top with several boards and continue to the bottom to avoid lap marks; maintain a wet edge for a uniform finish and to avoid lap marks.
 - 5. Horizontal Siding: Start at one edge and continue through to a logical break, such as a door, window, or corner; maintain a wet edge for a uniform finish and to avoid lap marks.
 - 6. Drying Time: Allow 24 hours between coats, as recommended per manufacturer.
- E. Protect work of other trades against damage from finish application. Correct damage by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- F. Provide "Wet Paint" signs to protect newly stained finishes. After completing staining operations, remove temporary protective wrappings provided by others to protect their work.
- G. At completion of construction activities of other trades, touch up and restore damaged or defaced finished wood surfaces.

3.3 INTERIOR WOOD FINISH SYSTEM SCHEDULE

- A. Stain-Varnish Finish: Two finish coats of varnish over a sealer coat and interior wood stain.
 - 1. Stain Coat: Interior wood stain.
 - 2. Sealer Coat: Clear sanding sealer.
 - 3. Finish Coats: Interior alkyd- or polyurethane-based clear satin varnish.

END OF SECTION 09931