

SECTION 09 91 23
INTERIOR PAINTING

GENERAL

1.1 DESCRIPTION

- A. Definitions:
1. "Paint" and "painting" refer to applied coatings.
 2. Finished room or space:
 - a. One that has finish called for on Room Finish and Color Schedule.
 3. Mechanical work (and equipment): Work included in Mechanical Specification Divisions.
 4. Electrical work (and equipment): Work included in Electrical Specification Divisions.
- B. Work included:
1. Interior surfaces in finished rooms or spaces, unless indicated not to be painted or indicated to be painted under other sections.
 2. Mechanical and electrical work:
 - a. Interior mechanical and electrical equipment not completely factory finished.
 - b. In finished rooms and spaces with finished ceilings:
 - 1) Paint exposed ductwork, piping, insulated piping, conduit, busways, raceways, and associated accessories.
- C. Work not included but provided in other sections (topcoat):
1. Shield Conductive Coating as specified in Section 13 49 00 RADIO FREQUENCY SHIELDING SYSTEM.
 - a. See specification for ceiling locations.
 - b. Primer for Shield Conductive Coating by 09 91 23.

1.2 SUBMITTALS

- A. Product data:
1. Manufacturer's data for each paint type to be applied indicating conformance to specifications.
- B. Samples:
1. Manufacturers complete range of colors for selection.
 - a. Provide four 8 1/2 x 11 IN samples of each color, gloss, and texture for approval.
- C. LEED Credit EQc4.2, Low-Emitting Materials, Paints and Coatings:
1. Provide product data and material safety data sheets (MSDS) for paints and coatings used inside the weatherproofing system indicating VOC content of each product used. Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D.
 2. Materials must comply with the Green Seal Standard for paints, GS-11, requirements for VOC and chemical component limits. Re: www.greenseal.org/standards/paints.html.

Paint Type:	Interior Non-Flat	Maximum VOC	150 g/l
	Interior Flat	Maximum VOC	50 g/l
	Primer	Maximum VOC	100 g/l

All Types: Contain not more than 1.0% by wt. of the sum total of Aromatic Compounds.
- D. Contract closeout information:
1. Maintenance data.
 2. Material Safety Data Sheets and technical product data sheets must be included with O & M manuals for all products used.

1.3 QUALITY ASSURANCE

- A. All materials shall be applied free from runs, sags, wrinkles, streaks, shiners, and brush marks.

- B. All materials shall be applied uniformly. If any reduction of the coating's viscosity is necessary, it shall be done in accordance with the manufacturer's label directions.
- C. No painting shall be undertaken if air or surface temperature is below 50 degrees F.
- D. Installer Qualifications:
 - 1. The painting subcontractor shall have a minimum of 5 years proven satisfactory experience and shall show proof before commencement of work that he will maintain a qualified crew of painters throughout the duration of the work.
 - 2. Only qualified journeypersons, as defined by local jurisdiction shall be engaged in painting work. Apprentices may be employed provided they work under the direct supervision of a qualified journeyperson in accordance with trade regulations.

1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver in original labeled containers.
- B. Protect from freezing or damage.
- C. Store materials in place designated by Owner or Architect.
- D. Keep storage neat and clean.
- E. Repair damage thereto or to surroundings.
- F. Remove rags and waste from building daily and avoid danger of fire.

1.5 JOB CONDITIONS

- A. Install when temperature and humidity conditions approximate conditions that will exist when building is occupied. Maintain conditions after installation.
- B. Install prior to adhesively applied flooring and wall covering.
- C. Install prior to carpet and acoustical material.
- D. Schedule installation to minimize accumulation of air contaminants that cannot be removed prior to occupancy.
- E. Air out construction with 100% outside air.
 - 1. Do not recirculate prior to occupancy.
 - 2. Ventilate during installation. Seal return air ducts and use direct exhaust to outdoors.
- F. Maintain schedule indicating when painter expects to complete respective coats of paint for various areas.
 - 1. Keep schedule current as job progress dictates.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Acceptable manufacturers:
 - 1. Provide paint as product of one manufacturer as far as possible.
 - 2. Paint, stain, and coating systems listed are Sherwin Williams unless noted otherwise.
 - a. Use comparable performance, environmental, and aesthetic requirements for paints by Optional manufacturers.
 - b. Manufacturers listed in Room Finish and Color Schedule are for color reference only.
 - 3. Paints:
 - a. Base:
 - 1) Sherwin-Williams.
 - 2) Benjamin Moore.
 - b. Optional:

- 1) ICI Dulux Paint.
 - 2) PPG Industries.
 - 3) Kelly Moore.
 - 4) Diamond Vogel.
 - 5) KWAL-Howells, Inc.
4. Stains:
 - a. Base:
 - 1) Sherwin-Williams.
 - b. Optional:
 - 1) Benjamin Moore.
 - 2) ICI Dulux Paint.
 - 3) PPG Industries.
 - 4) Kelly Moore.
 - 5) KWAL-Howells, Inc.
 5. Other manufacturers desiring approval comply with Section 00 26 00.
 6. Substitutions must be pre-approved by Owner. Any proposed substitution must be available locally.
- B. Paints and stains: As Scheduled in Part 3.
1. Unscheduled items: Bring to the attention of Architect.
 2. Colors: As noted in Room Finish and Color Schedule and as indicated in Section 20 05 53.
 - a. Architect reserves right to select accent colors from entire range of manufacturer's colors, including deep colors.
 - b. Architect reserves right to require that one or more walls in a room or space be painted a contrasting accent color, except in janitor's and electric closets and other small miscellaneous rooms and spaces.
 - c. Primer color: White.
 - 1) Bold, deep, vivid, and transparent top coats: Gray tint.
 - a) Coordinate with top coat color.
 3. Gloss range: MPI Standards as measured in accordance with ASTM D523:
 - a. Gloss Level 1 (Flat): Maximum 5 at 60 degrees, maximum 10 at 85 degrees.
 - b. Gloss Level 2 (Velvet): Maximum 10 at 60 degrees, 10-35 at 85 degrees.
 - c. Gloss Level 3 (Eggshell): 10-25 at 60 degrees, 10-35 at 85 degrees.
 - d. Gloss Level 4 (Satin): 20-35 at 60 degrees, minimum 35 at 85 degrees.
 - e. Gloss Level 5 (Semi-gloss): 35-70 at 60 degrees.
 - f. Gloss Level 6 (Gloss): 70-85 at 60 degrees.
 - g. Gloss Level 7 (High gloss): More than 85 at 60 degrees.
 4. If the gloss range is not indicated, provide top coat with a MPI Gloss Level 3 (Eggshell) finish.
 5. Submit gloss samples for approval prior to use.
 6. Add flatteners if necessary to achieve specified gloss.
 7. Part 3 includes a listing of surfaces and type of paint to be applied.
- C. LEED Credit EQc4.2 Low-Emitting Materials, Paints and Coatings:
1. Material shall contain VOC content as certified.

2.2 EXTRA MATERIAL

- A. Leave on premises, where directed by the Owner, not less than 1 gallon of each paint used.
- B. All material shall be in 1 gallon containers, tightly sealed and clearly marked with manufacturer's name, color number or formula, base number and sheen.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine surfaces carefully for defects which cannot be corrected and might prevent satisfactory results.
- B. Commencing of work in a specific area constitutes acceptance of surfaces, and responsibility for performance.

3.2 SURFACES NOT TO BE PAINTED

- A. Anodized aluminum, stainless steel, chromium plate, glass, copper, bronze or similar materials.
- B. Moving parts of valves, operating units, mechanical and electrical parts, such as valve and damper operators, sending devices, motor and fan shafts.
- C. Code labels, such as UL, FM that are mylar or flat (non-embossed) plates.
 - 1. Embossed plates and labels stamped into frames will be painted, label and information on label to be readily visible and convenient for identification by authority having jurisdiction.
- D. Equipment identification or rating plates.
- E. Items having complete factory finish with exception of:
 - 1. Electrical panels.
 - 2. Control cabinets.
 - 3. Similar surfaces in finished areas.

3.3 PREPARATION - GENERAL

- A. Assure that surfaces are clean and dry.
- B. Assure that surfaces are free of foreign materials which will affect adhesion or appearance.
- C. Remove mildew and neutralize surface.
- D. Eliminate efflorescence before painting.
- E. Before painting, test surfaces with moisture meter.
- F. Paint when moisture is within paint manufacturer's acceptable limits.

3.4 PREPARATION - EXISTING SURFACES

- A. Wherever existing work is cut, patched, or added to, touch up to match new work as closely as possible.
 - 1. Check compatibility of new coating to previously painted surfaces by applying test patch. Allow to dry and test adhesion before continuing painting work.
- B. Put existing work scheduled for repainting in condition to provide good adhesion and to receive paint.
 - 1. Wash thoroughly surfaces to be repainted with abrasive kitchen cleaner or sand to manufacturer's recommendations.
 - 2. Remove residue from cleaning and abrading procedures.
 - 3. Spot prime bare areas.
- C. Where a wall or ceiling is disturbed and patched, repaint entire wall or ceiling.
- D. On surfaces to be refinished remove hardware, accessories, plates, surface mounted lighting fixtures, and similar items not to be coated, or provide protection during preparation and coating operations.
- E. Protect (and do not paint) code labels, such as UL, FM that are mylar or flat (non-embossed) plates.

1. Embossed plates and labels stamped into frames may be painted, label and information on label to be readily visible and convenient for identification by authority having jurisdiction.

3.5 MATERIAL PREPARATION

- A. Mix and prepare materials per manufacturer's specifications.
- B. Stir, agitate or blend materials to produce a mixture of uniform density as required for application of materials.

3.6 PREPARATION - WOOD

- A. General:
 1. Immediately before applying finish:
 - a. Sand all surfaces with 180-grit, or finer, as necessary to accomplish the following:
 - 1) Remove fingerprints and other marks which may have occurred during shipment to site and during installation.
 - 2) Restore surface to smooth surface texture.
 - 3) Prepare grain to receive finish.
 - b. Remove dust.
- B. Opaque Finishes:
 1. After priming coat has dried, seal knots, pitch and resinous sapwood.
- C. Stained and Clear Finishes:
 1. Treat wood with compatible wash-coat prior to stain application.
 2. Putty nail holes and minor defects, to match wood color.

3.7 PREPARATION - FERROUS METAL SURFACES AND HOLLOW METAL

- A. Substrate preparation shall be in accordance with finish manufacturer's written instructions.
- B. Follow requirements of SSPC SP1 and SP3.
 1. Except where higher prep levels are indicated.
- C. Wire brush, or grind as necessary to remove shoulders at edge of sound paint to prevent telegraphing.
- D. Touch up damaged shop coats.
- E. For surfaces with touched up shop coat, omit first coat.
- F. Hollow metal frame joints at intersections of Rabbets, Stops, and Soffit Joints:
 1. Neatly fill corner seam with painter's caulk (in field) prior to painting.
- G. For windows, and door assemblies that access to, or egress out directly from the Clean Zone, or are interior to the Clean Zone such that they are in contact with the clean air management systems, provide paint system PNTE-CR to the cleanroom side and half of the edges and frames.

3.8 PREPARATION - GALVANIZED METAL SURFACES AND NONANODIZED ALUMINUM

- A. Follow requirements of SSPC SP1.
- B. Treat surfaces with galvanized surface cleaner as recommended by primer and topcoat manufacturer.

3.9 PREPARATION - GYPSUM WALLBOARD

- A. Repair minor irregularities left by finishers.
- B. Exercise care to avoid raising nap of paper.
- C. Apply prime coat.

- D. Notify gypsum wallboard finisher to repair and refinish areas which indicate defects after application of primer.
- E. Re-prime refinished areas.

3.10 PREPARATION – CONCRETE AND MASONRY

- A. Repair minor defects.
- B. Remove oil from concrete by washing with xylol.
- C. Block Filler:
 - 1. Apply masonry to fill pinholes and minor surface defects, and to prime surface for topcoat(s).
 - 2. Apply by brush, roller or sprayer.
 - a. Where spray-applied: Back-roll with roller or squeegee.
 - 3. Minimum Nominal Thickness: 10 mil DFT.
 - a. Comply with manufacturer's recommended coverage rates for conditions encountered.
 - 4. Provide complete cover with recommended coating system.
- D. For Area 'B' Clean Zone fill concrete voids, bugholes, and other cavities with paint system Manufacturer's recommended filler/sealer.
 - 1. Criteria definitions for voids, bugholes, and cavities shall be as provided by the finish manufacturer's written documentation.
- E. Obtain Architect's approval of finish for surfaces to receive high build glazed coatings.

3.11 APPLICATION - GENERAL

- A. Paint surfaces as specified in paragraphs "Schedule - Interior Paint Systems".
- B. Provide complete coverage and hide.
 - 1. Paint systems are to cover.
 - 2. When color or undercoats show through, apply additional coats at no additional cost until paint film is of uniform finish and color.
- C. Employ only skilled mechanics.
- D. Mix and apply as recommended by manufacturer.
- E. If Architect so directs, do not apply succeeding coats until Architect has an opportunity to observe previous coat.
- F. Remove and protect hardware, accessories, plates, fixtures, finished work, and similar items; or provide ample in-place protection.
- G. Upon completion of painting, carefully replace removed items and/or remove protection.
- H. Apply materials under adequate illumination.
- I. Evenly spread and smoothly flow on for full, smooth cover.
- J. Assure that coats are dry before recoating.
- K. Touch up suction or hot spots in plaster, gypsum wallboard, concrete block, and concrete before painting.
- L. Touch up abraded areas of shop prime coats before subsequent coats are applied.
- M. Back prime wood trim with penetrating sealer.

3.12 APPLICATION - INTERIOR

- A. Finish door edges same as faces of doors.

- B. Finish closets, semi-exposed surfaces behind grilles, radiation, etc., to match nearest adjoining surfaces.

3.13 PROTECTION AND CLEANUP

- A. Protect adjacent work against damage by painting and finishing work.
- B. Clean, repair or replace, and repaint damaged work as directed by Architect.
- C. Provide "WET PAINT" signs.
- D. Remove temporary protective wrappings, after completion of operations.
- E. Clean paint spattered surfaces.
- F. Use care not to damage finished surfaces.
- G. Remove surplus materials, scaffolding and debris.
- H. Leave areas broom clean.

3.14 SCHEDULE - INTERIOR PAINT SYSTEMS

- A. Concrete and concrete block walls:
 - 1. Latex (PT), Gloss Level 3 (Eggshell):
 - a. Sherwin Williams:
 - 1) Primer coat: Latex block filler, PrepRite Block Filler; B25W25.
 - 2) Intermediate coat: ProGreen 200 Interior Latex Eg-Shel; B20W651.
 - 3) Topcoat: ProGreen 200 Interior Latex Eg-Shel; B20W651.
 - b. ICI:
 - 1) Primer coat: Prep & Prime Block Filer; 3010.
 - 2) Intermediate coat: Pro Premium Eggshell Interior Wall & Trim Enamel; 1402.
 - 3) Topcoat: Pro Premium Eggshell Interior Wall & Trim Enamel; 1402.
 - c. PPG:
 - 1) Primer coat: Speedhide Latex Block Filler; 6-7.
 - 2) Intermediate coat: Speedhide Latex Eggshell; 6-411.
 - 3) Topcoat: Speedhide Latex Eggshell; 6-411.
 - 2. Epoxy (EPT), Gloss Level 5 (Semi-gloss):
 - a. Sherwin Williams:
 - 1) Primer coat: Loxon Block Surfacer, A24W200.
 - 2) Intermediate coat: Water-Based Catalyzed Epoxy, Semi-Gloss, B70W/B60V25.
 - 3) Topcoat: Water-Based Catalyzed Epoxy, Semi-Gloss, B70W/B60V25.
 - b. ICI:
 - 1) Primer coat: Bloxfil Heavy Duty Acrylic Block Filler; 4000.
 - 2) Intermediate coat: Tru-Glaze-WB Wateborn Epoxy Semi-Gloss; 4406.
 - 3) Topcoat: Tru-Glaze-WB Wateborn Epoxy Semi-Gloss; 4406.
 - c. PPG:
 - 1) Primer coat: Perma-Crete Block Surfacer; 4-100.
 - 2) Intermediate coat: Aquapon WB Water Based Epoxy; 98-1.
 - 3) Topcoat: Aquapon WB Water Based Epoxy; 98-1.
 - 3. Epoxy – Cleanroom (EPT-CR), Gloss Level 6-7 (Gloss):
 - a. Sherwin Williams:
 - 1) Primer coat: As recommended by the paint system manufacturer's written instructions.
 - 2) Intermediate and Topcoat: Water-Based Epoxy, Saniglaze High Build, 3497; 6-8 mils DFT per coat, total thickness 12-16 mils DFT.
 - b. Optional: Manufacturer's identified in Item 2.1.A matching the performance, manufacturer, and chemical-resistance of the Base product.
- B. Gypsum wallboard and plaster surfaces (walls):
 - 1. Latex (PT), Gloss Level 3 (Eggshell):

- a. Sherwin Williams:
 - 1) Primer coat: ProGreen 200 Interior Latex Primer; B28W600.
 - 2) Intermediate coat: ProGreen 200 Interior Latex Eg-Shel; B20W651.
 - 3) Topcoat: ProGreen 200 Interior Latex Eg-Shel; B20W651.
- b. ICI:
 - 1) Primer coat: Prep & Prime Griper Multi-Purpose Primer; 3210.
 - 2) Intermediate coat: Pro Premium Eggshell Interior Wall & Trim Enamel; 1402.
 - 3) Topcoat: Pro Premium Eggshell Interior Wall & Trim Enamel; 1402.
- c. PPG:
 - 1) Primer coat: Pure Performance 0 VOC Latex Primer; 9-900.
 - 2) Intermediate coat: Speedhide Latex Eggshell; 6-411.
 - 3) Topcoat: Speedhide Latex Eggshell; 6-411.
- 2. Epoxy (EPT), Gloss Level 5 (Semi-gloss):
 - a. Sherwin Williams:
 - 1) Primer coat: Prep Rite 200 Prime, B28W201.
 - 2) Intermediate coat: Water-Based Catalyzed Epoxy, Semi-Gloss, B70W/B60V25.
 - 3) Topcoat: Water-Based Catalyzed Epoxy, Semi-Gloss, B70W/B60V25.
 - b. ICI:
 - 1) Primer coat: Prep & Prime Griper Multi-Purpose Primer; 3210.
 - 2) Intermediate coat: Tru Glaze Waterborne Acrylic Epoxy Coating 4418.
 - 3) Topcoat: Tru Glaze Waterborne Acrylic Epoxy Coating 4418.
 - c. PPG:
 - 1) Primer coat: Primer coat: Pure Performance 0 VOC Latex Primer; 9-900.
 - 2) Intermediate coat: Aquapon WB Water based Epoxy; 98-1.
 - 3) Topcoat: Aquapon WB Water based Epoxy; 98-1.
- 3. Epoxy – Cleanroom (PNTE-CR), Gloss Level 6-7 (Gloss):
 - a. Sherwin Williams:
 - 1) Primer coat: As recommended by the paint system manufacturer’s written instructions.
 - 2) Intermediate and Topcoat: Water-Based Epoxy, Saniglaze High Build, 3497; 6-8 mils DFT per coat, total thickness 12-16 mils DFT.
 - b. Optional: Manufacturer’s identified in Item 2.1.A matching the performance, manufacturer, and chemical-resistance of the Base product.

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C. Gypsum wallboard and plaster surfaces (ceiling):

- 1. Latex (PT), Gloss Level 1 (Flat):
 - a. Sherwin Williams:
 - 1) Primer coat: ProGreen Primer, B28W600.
 - 2) Intermediate coat: ProGreen 200 Interior Latex Flat; B30W600.
 - 3) Topcoat: ProGreen 200 Interior Latex Flat; B30W600.
 - b. ICI:
 - 1) Primer coat: Prep & Prime Griper Multi-Purpose Primer; 3210.
 - 2) Intermediate coat: Pro Premium Eggshell Interior Wall & Trim Enamel; 1402.
 - 3) Topcoat: Pro Premium Eggshell Interior Wall & Trim Enamel; 1402.
 - c. PPG:
 - 1) Primer coat: Pyre Performance 0 VOC Latex Primer; 9-900.
 - 2) Intermediate coat: Speedhide Latex Flat; 6-70.
 - 3) Topcoat: Speedhide Latex Flat; 6-70.
- 2. Epoxy (EPT), Gloss Level 5 (Semi-gloss):
 - a. Sherwin Williams:
 - 1) Primer coat: Harmony Interior Latex Primer, B11W900.
 - 2) Intermediate coat: Water-Based Catalyzed Epoxy, Semi-Gloss, B70W/B60V25.
 - 3) Topcoat: Water-Based Catalyzed Epoxy, Semi-Gloss, B70W/B60V25.
 - b. ICI:
 - 1) Primer coat: Prep & Prime Griper Multi-Purpose Primer; 3210.
 - 2) Intermediate coat: Devflex QD Waterborn Semi-Gloss Enamel; 4206.

- 3) Topcoat: Devflex QD Waterborn Semi-Gloss Enamel; 4206.
- c. PPG:
 - 1) Primer coat: Primer coat: Pure Performance 0 VOC Latex Primer; 9-900.
 - 2) Intermediate coat: Aquapon WB Water based Epoxy; 98-1.
 - 3) Topcoat: Aquapon WB Water based Epoxy; 98-1.
- 3. Epoxy – Cleanroom (EPT-CR), Gloss Level 6-7 (Gloss):
 - a. Sherwin Williams:
 - 1) Primer coat: As recommended by the paint system manufacturer’s written instructions.
 - 2) Intermediate and Topcoat: Water-Based Epoxy, Saniglaze High Build, 3497; 6-8 mils DFT per coat, total thickness 12-16 mils DFT.
 - b. Optional: Manufacturer’s identified in Item 2.1.A matching the performance, manufacturer, and chemical-resistance of the Base product.
- D. Metal stairs, handrails, and guardrails; Miscellaneous metals (ferrous, primed, zinc-coated, and aluminum):
 - 1. Water based urethane, Gloss Level 6 (Gloss):
 - a. Sherwin Williams:
 - 1) Primer coat: Pro-Cryl Universal Acrylic Primer, B66-310 Series.
 - 2) Intermediate coat: Acrolon 100 Water Based Urethane Gloss, B65-720.
 - 3) Topcoat: Acrolon 100 Water Based Urethane Gloss, B65-720.
 - b. ICI:
 - 1) Primer coat:
 - 2) Intermediate coat:
 - 3) Topcoat:
 - c. PPG:
 - 1) Primer coat: Pitt Tech 100% Acrylic Primer; 90-712.
 - 2) Intermediate coat: Durethane WB Water Based Urethane; 98-8200.
 - 3) Topcoat: Durethane WB Water Based Urethane; 98-8200.
 - E. Metal doors and frames; Metal stairs, handrails, and guardrails; Miscellaneous metals (ferrous, primed, zinc-coated, and aluminum):
 - 1. Water based urethane, Gloss Level 6 (Gloss):
 - a. Sherwin Williams:
 - 1) Primer coat: Pro-Cryl Universal Acrylic Primer, B66-310 Series.
 - 2) Intermediate coat: Hydrogloss Water Based Urethane Gloss, B65.
 - 3) Topcoat: Hydrogloss Water Based Urethane Gloss, B65.
 - b. ICI:
 - 1) Primer coat:
 - 2) Intermediate coat:
 - 3) Topcoat:
 - c. PPG:
 - 1) Primer coat: Pitt Tech 100% Acrylic Primer; 90-712.
 - 2) Intermediate coat: Durethane WB Water Based Urethane; 98-8200.
 - 3) Topcoat: Durethane WB Water Based Urethane; 98-8200.
 - 2. Water based urethane, Gloss Level 5 (Semi gloss):
 - a. Sherwin Williams:
 - 1) Primer coat: Pro-Cryl Universal Acrylic Primer, B66-310 Series.
 - 2) Intermediate coat: Pro Classic Waterborne Acrylic Semi-Gloss, B31 Series.
 - 3) Topcoat: Pro Classic Waterborne Acrylic Semi-Gloss, B31 Series.
 - b. ICI:
 - 1) Primer coat:
 - 2) Intermediate coat:
 - 3) Topcoat:
 - c. PPG:
 - 1) Primer coat: Pitt Tech 100% Acrylic Primer; 90-712.

- 2) Intermediate coat: Acrylic Metal Finish S/G; 7-374.
- 3) Topcoat: Acrylic Metal Finish S/G; 7-374.
- 3. Epoxy – Cleanroom (EPT-CR), Gloss Level 6-7 (Gloss):
 - a. Sherwin Williams:
 - 1) Primer coat: As recommended by the paint system manufacturer’s written instructions.
 - 2) Intermediate and Topcoat: Water-Based Epoxy, Saniglaze High Build, 3497; 6-8 mils DFT per coat, total thickness 12-16 mils DFT.
 - b. Optional: Manufacturer’s identified in Item 2.1.A matching the performance, manufacturer, and chemical-resistance of the Base product.
- F. Structural steel (exposed):
 - 1. Water based urethane, Gloss Level 6 (Gloss):
 - a. Sherwin Williams:
 - 1) Primer coat: Shop-applied. See Section 05 12 10.
 - a) Touch-up in field as required.
 - 2) Intermediate coat: Acrolon 100 Water Based Urethane Gloss, B65-720.
 - 3) Topcoat: Acrolon 100 Water Based Urethane Gloss, B65-720.
 - 4) Clear coat: Diamond-Clad Clear Coat Urethane, B65 Series.
 - b. ICI:
 - 1) Primer coat: Shop-applied. See Section 05 12 10.
 - a) Touch-up in field as required.
 - 2) Intermediate coat: Devthane UVA Aliphatic Urethane Gloss Enamel; 389.
 - 3) Topcoat: Devthane UVA Aliphatic Urethane Gloss Enamel; 389.
 - 4) Clear coat: Manufacturer recommended.
 - c. PPG:
 - 1) Primer coat: Shop-applied. See Section 05 12 10.
 - a) Touch-up in field as required.
 - 2) Intermediate coat: Durethane WB Water Based Urethane; 98-8200.
 - 3) Topcoat: Durethane WB Water Based Urethane; 98-8200.
 - 4) Clear coat: Durethane WB Water Based Urethane; 98-8200.
 - d. Epoxy – Cleanroom (EPT-CR), Gloss Level 6-7 (Gloss):
 - 1) Sherwin Williams:
 - a) Primer coat: As recommended by the paint system manufacturer’s written instructions.
 - b) Intermediate and Topcoat: Water-Based Epoxy, Saniglaze High Build, 3497; 6-8 mils DFT per coat, total thickness 12-16 mils DFT.
 - 2) Optional: Manufacturer’s identified in Item 2.1.A matching the performance, manufacturer, and chemical-resistance of the Base product.
- G. Wood:
 - 1. Exposed items, Gloss Level 3 (Eggshell):
 - a. Sherwin Williams:
 - 1) Primer coat: Harmony Interior Latex Primer, B11W900.
 - 2) Intermediate coat: Harmony Interior Low Odor Latex Eg-Shel, B9.
 - 3) Topcoat: Harmony Interior Low Odor Latex Eg-Shel, B9.
 - b. ICI:
 - 1) Primer coat: Lifemaster Prep & Prime Primer-Sealer; LM9116.
 - 2) Intermediate coat: Lifemaster Eggshell Interior Enamel; LM9300.
 - 3) Topcoat: Lifemaster Eggshell Interior Enamel; LM9300.
 - c. PPG:
 - 1) Primer coat: Pure Performance 0 VOC Latex Primer; 9-900.
 - 2) Intermediate coat: Pure Performance 0 VOC Latex; 9-300.
 - 3) Topcoat: Pure Performance 0 VOC Latex; 9-300.
 - 2. Concealed items, Gloss Level 3 (Eggshell):
 - a. Sherwin Williams:

- 1) Primer coat: ProGreen Primer, B28W600.
- 2) Intermediate coat: ProGreen 200 Interior Latex Eg-Shel; B20W651.
- 3) Topcoat: ProGreen 200 Interior Latex Eg-Shel; B20W651.
- b. ICI:
 - 1) Primer coat: Ultra-Hide Interior Primer; 1030.
 - 2) Intermediate coat: Pro Premium Eggshell Interior Wall & Trim Enamel; 1402.
 - 3) Topcoat: Pro Premium Eggshell Interior Wall & Trim Enamel; 1402.
- c. PPG:
 - 1) Primer coat: Pure Performance 0 VOC Latex Primer; 9-900.
 - 2) Intermediate coat: Speedhide Interior Latex Eggshell; 6-411.
 - 3) Topcoat: Speedhide Interior Latex Eggshell; 6-411.

3.15 SCHEDULE – FIELD FINISH SYSTEMS FOR INTERIOR WOOD

- A. General:
 - 1. Factory finishing of wood items specified elsewhere:
 - a. Factory finishing of wood veneer-faced casework: Specified in Section 12 34 00.
- B. Interior Wood
 - 1. Washcoat: Prepare wood to accept stain uniformly by application of a washcoat.
 - a. Sherwin Williams:
 - 1) Wood Classics Natural.
 - b. ICI:
 - 1) Woodpride.
 - c. PPG:
 - 1) Olympic Wood Conditioner; 41001.
 - 2. Wood Stain:
 - a. Sherwin Williams:
 - 1) Wood Classics Oil Stain, A49V200.
 - b. ICI:
 - 1) Woodpride Oil Based Stain; 1700 series.
 - c. PPG:
 - 1) Rez Interior Oil Stain; 77-560.
 - 3. Filler Coat (horizontal surfaces where open-grained wood is indicated): Exception: Omit filler coat at closed grained wood specie.
 - a. Sherwin Williams:
 - 1) SherWood Natural Filler, D70T1.
 - b. PPG:
 - 1) Olympic Wood Filler; 41003.
 - 4. Sanding Sealer:
 - a. Sherwin Williams:
 - 1) Wood Classics FastDry Sanding Sealer, B26.
 - b. ICI:
 - 1) Woodpride 1800 or 1900 series thinned 25 percent.
 - c. PPG:
 - 1) Speedhide Interior Oil Sanding Sealer; 6-10.
 - 2) Selected polyurethane varnish thinned 25 percent.
 - 5. Clear Topcoat:
 - a. Quality Assurance: 8th Edition, Version 2.0 (or more current) of “Architectural Woodwork Quality Standards” by AWI and AWMAC.
 - 1) Comply with Section 1500; Premium Quality.
 - 2) Comply with Section 1500; Custom Quality
 - b. Sheen (measured with 60 degree gloss meter):
 - 1) Flat; **0 to 5** points.
 - 2) Satin: **16 to 32** points.
 - 3) Semi-gloss: **30 to 60** points.
 - 4) Gloss: greater than **60 to 80** points.

- c. Apply following product in at least 2 coats.
 - 1) Lightly scuff sand in between coats.
- 6. Oil-based Varnish:
 - a. Sherwin Williams:
 - 1) Wood Classics FastDry Oil Varnish; A66(A66V391Gloss). (MPI-75)
 - b. PPG:
 - 1) NA.
- 7. Polyurethane-based Varnish:
 - a. Sherwin Williams:
 - 1) Wood Classics Polyurethane Varnish; A67.
 - b. ICI:
 - 1) Woodpride Polyurethane Varnish; 1900 series.
 - c. PPG:
 - 1) Rez Interior Polyurethane Varnish; 77-85 (Gloss) or 77-89 (Satin).
- 8. Water-based Polyurethane Varnish (non-yellowing):
 - a. Sherwin Williams:
 - 1) Wood Classics Waterborne Polyurethane Varnish; A68.
 - b. ICI:
 - 1) Woodpride Waterbased Varnish; 1800 series.
 - c. PPG:
 - 1) Rez Interior Water Based Varnish; 77-45 (Gloss) or 77-49 (Satin).

END OF SECTION