SECTION 09900 – PAINTING:

PART 1 – GENERAL:

1.01 RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to this section.

1.02 SUMMARY:

A. This Section includes: Surface preparation, painting, and finishing of all exposed interior and exterior items and surfaces.

1. Surface preparation, priming, and finish coats specified in this section are in addition to shop priming and surface treatment specified under other sections.

B. Paint exposed surfaces: Whether or not colors are designated in "schedules," except where a surface or material is specifically indicated not to be painted or is to remain natural. Where an item or surface is not specifically mentioned, paint the same as similar adjacent materials or surfaces. If color or finish is not designated, the Owner will select from standard colors or finishes available.

1. Painting includes: Field painting exposed bare and covered pipes and ducts (including color coding), hangers, exposed steel and iron work, and primed metal surfaces of mechanical and electrical equipment.

C. Painting: Is not required on prefinished items, finished metal surfaces, concealed surfaces, operating parts, and labels.

1. Prefinished items: Not to be painted include the following factory-finished components:

Architectural woodwork and casework.
Finished mechanical and electrical equipment.
Light fixtures.

2. Concealed surfaces: Not to be painted include wall or ceiling surfaces in the following generally inaccessible areas:

Foundation spaces.
Furred areas.
Utility tunnels.
Pipe spaces.
Duct shafts.

3. Finished metal surfaces: Not to be painted include:

Anodized aluminum.
Stainless steel.

Chromium plate.
Copper.

Bronze.
Brass.

4. Operating parts: Not to be painted include moving parts of operating equipment such as the following:

Valve and damper operators.
Linkages.
Sensing devices.
Motor and fan shafts.

5. Labels: Do not paint over Underwriter's Laboratories, Factory Mutual or other code-required labels or equipment name, identification, performance rating, or nomenclature plates

1.03 DEFINATIONS:

A. "Paint": Includes coating systems materials, primers, emulsions, enamels, stains, sealers and fillers, and other applied materials whether used as prime, intermediate, or finish coats.

1.04 SUBMITTALS:

A. Product Data: Manufacturer's technical information, label analysis and application instructions for each material proposed for use.

List each material and cross-reference the specific coating and finish system and application. Identify each material by the manufacturer's catalog number and general classification.

B. Samples for initial color selection: Shall be in the form of manufacturer's color charts.

The Owner will furnish color chips for surfaces to be coated, and for the paint manufacturer to match.

C. Samples for verification purposes: Provide samples of each color and material to be applied, with texture to simulate actual conditions, on representative samples for the actual substrate. Define each separate coat, including block fillers and primers. Use representative colors when preparing samples of review. Resubmit until required sheen, color and texture is achieved.

1. Provide a list of material and application for each coat of each sample. Label each sample as to location and application.

2. Submit samples on the following substrates for the Owner's review of color and texture only.

Painted Wood: Provide two 12 - by 12-inch samples of each color and material on hardboard.
Stained or Natural Wood: Provide two 4- by 8-inch samples of natural and stained wood finish on actual wood surfaces.

Ferrous Metal: Provide two 4-inch-square samples of flat metal and two 8-inch-long samples of solid metal for each color and finish.

1.05 QUALITY ASSURANCE:

A. Single-Source Responsibility: Provide primers and undercoat paint produced by the same manufacturer as the finish coats.

B. Coordination of Work: Review other sections in which primers are provided to ensure compatibility of the total systems for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.

Notify the Owner of problems anticipated using the materials specified.

C. Material Quality: Provide the manufacturer's best quality trade sale paint material of the various coating types specified. Paint material containers not displaying manufacturer's product identification will not be acceptable.

1. Proprietary names: Used to designate colors or materials is not intended to imply that products named are required or to exclude equal products of other manufacturers.

2. Federal Specifications: Establish a minimum quality level for paint materials, except where other product identification is used. Provide written certification from the manufacturer that materials provided meet or exceed these criteria.

3. Products: that comply with qualitative requirements of applicable Federal Specifications, yet differ in quantitative requirements, may be considered for use when acceptable to the Owner. Furnish material data and manufacturer's certificate of performance to Owner for proposed substitutions.

1.06 DELIVERY, STORAGE, AND HANDLING:

A. Deliver material: To the job site in the manufacturer's original, unopened packages and containers bearing manufacturer's name and label and the following information.

Product name or title of material.
Product description (generic classification or binder type).
Federal Specification number, if applicable.
Manufacturer's stock number and date of manufacture.
Contents by volume, for pigment and vehicle constituents.
Thinning instructions.
Application instructions.
Color name and number.

B. Store materials: Not in use in tightly covered containers in a well-vented area at a minimum ambient temperature of 45 deg F (7 deg c). Maintain containers used in storage in a clean condition, free of foreign materials and residue. Protect from freezing. Keep storage area neat and orderly.
Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing, and application.

1.07 JOB CONDITIONS:

A. Apply water-based paints: Only when the temperature of surfaces to be painted and surrounding air temperatures are between 50 deg F (10 deg c) and 90 F (32 deg C).

B. Apply solvent-thinned paints: Only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 deg F (7 deg C) and 95 deg F (35 deg C).

C. Do not apply paint: In snow, rain, fog, or mist, when the relative humidity exceeds 85 percent, at temperature less than 5 deg F (3 deg C) above the dew point, or to damp or wet surfaces.

Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by the manufacturer during application and drying periods.

2.01 MANUFACTURERS:

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include or approved equal.

Devoe and Reynolds Co. (Devoe).
The Glidden Company (Glidden).
Benjamin Moore and Co. (Moore).
PPG Industries, Pittsburgh Paints (Pittsburgh).
Pratt and Lambert (P & L).
The Sherwin-Williams Company (S-W).
Perry & Derrick Paints

2.02 MASONRY BLOCK FILLER:

A. High-performance Latex Block Filler: Heavy-duty latex block fillers used for filling open textured interior and exterior concrete masonry block before application of top coats:

Devoe: 52901 Bloxfil Acrylic Latex Block Filler.
Glidden: 5317 Ultra-Hide Acrylic Latex Block Filler.
Moore: Moorcraft Block Filler #145.
Pittsburgh: 6-7 Latex Masonry Block Filler.
P & L: Pro-Hide Plus Block Filler.
S-W: Heavy-Duty Block Filler B42W46

2.03 PRIMERS:

A. Interior Flat Latex-Based Paint: Flat latex paint used as a primer on plaster under flat, semigloss, and full-gloss alkyd finishes:

Devoe: 36xx Wonder-Tones Latex Flat Wall Paint.
Glidden: 5019 PVA Primer Sealer.

Moore: Moore's Latex Quick-Dry Prime Seal #201.
Pittsburgh: 80 Line Wallhide Flat Latex Paint.
P & L: Vapex Latex Flat Wall Finish.
S-W: Wall and Wood Primer B49W2.

B. Latex-Based Interior White Primer: Latex-based primer coating used on interior gypsum drywall under a flat latex paint or an alkyd semigloss enamel.

Devoe: 50801 Wonder-Tones Latex Primer and Sealer.
Glidden: 5019 PVA Primer.
Moore: Moore's Latex Quick-Dry Prime Seal #201.
Pittsburgh: 6-2 Quick-Dry Latex Primer Sealer.
P & L: Latex Wall Primer Z30001.
S-W: Pro-Mar 200 Latex Wall Primer B28W200.

C. Exterior Primer Coating: Exterior alkyd wood primer for priming wood under alkyd gloss enamels, flat lusterless finish, and wood trim under medium shade or deep color high-gloss alkyds:

Devoe: 1102 All-Weather Alkyd House Paint Primer.
Glidden: 1951 Spread Gel-Flo Base Coat.
Moore: Moorwhite Primer #100.
Pittsburgh: 1-70 or 1-870 Sun-Proof Exterior Wood Primer.
P & L: Permalize Exterior Primer.
S-W: A-100 Exterior Alkyd Wood Primer Y24W20.

D. Exterior Primer Coating: Exterior alkyd wood primer for priming sealed plywood under an acrylic emulsion finish:

Devoe: 1102 all-weather Alkyd House Paint Primer.
Glidden: 3651 Spread House Paint Prime Coat.
Moore: Moorwhite Primer #100.
Pittsburgh: 1-70 or 1-80 Sun-Proof Exterior Wood Primer.
P & L: Permalize Exterior Primer.
S-W: A-100 Exterior Alkyd Wood Primer YTw04WTw00.

E. Synthetic, Rust-Inhibiting Primer: Quick-drying, rust-in-hibiting primer for priming ferrous metal on the exterior under full-gloss and flat alkyd enamel and on the interior under flat latex paint or odorless alkyd semigloss or alkyd gloss enamels:

Devoe: 14920 Bar-Ox Quick Dry Metal Primer, Red.
Glidden: 5210 Glid-Guard Universal Fast-Dry Metal Primer.
Moore: Ironclad Retardo Rust-Inhibitive Paint #163.
P & L: Effecto Rust-Inhibiting Primer.
S-W: Kem Kromik Metal Primer B50N2/B50W1.

F. Alkyd-Type Zinc Chromate Primer: Primers used for priming aluminum under high-gloss alkyd enamel finishes:

Devoe: 41839 Bar-Ox Zinc Chromate Primer.
Glidden: 5T229 Glid-Guard All-Purpose Metal Primer.
Pittsburgh: 6-204 Zinc Chromate Primer.
P & L: Effecto Primer Red or White.
S-W Zinc Chromate Primer B50Y1.

2.04 EXTERIOR FINISH PAINT MATERIAL:

A. Exterior Acrylic Emulsion: Quick-drying, flat, acrylic paint for use on the exterior over concrete, stucco, masonry (including concrete masonry block), and mineral – fiber – reinforced cement-panel surfaces:

Devoe:	15xx Wonder-Shield Exterior Acrylic Latex Flat House Paint.
Glidden:	3525 Spred Glide-On.
Moore:	Moore's Flat Exterior Latex Masonry & House Paint #105.
Pittsburgh:	72 Line Sun-Proof Acrylic Latex House Paint.
P & L:	Vapex Latex Flat House Paint.
S-W:	A-100 Acrylic Latex Flat Exterior Finish.
	A-6 Series.

B. Exterior Acrylic Emulsion: Quick-drying, flat, acrylic paint for use on the exterior over prime-coated wood and sealed and prime-coated painted plywood:

Devoe:	15XX Wonder-Shield Exterior Acrylic Latex House Paint.
Glidden:	3600 Spread House Paint.
Moore:	Moorgard Latex House Paint #103.
Pittsburgh:	72 Line Sun-Proof Acrylic Latex House Paint.
P & L:	Vapex Latex Flat House Paint.
S-W:	A100 Acrylic Latex Flat Exterior Finish A-6 series.

C. Alkyd Gloss Enamel: Weather-resistant, air-drying, high-gloss enamel for use on the exterior over prime-coated wood:

Devoe:	70XX Mirrolac Interior/Exterior Alkyd Gloss Enamel.
Glidden:	4500 Glid-Guard Industrial Enamel.
Moore:	Impervo High-Gloss Enamel #133.
Pittsburgh:	54 Line Quick-Dry Enamel.
P & L:	Effecto Enamel.
S-W:	Industrial Enamel B-54 Series.

D. Alkyd Gloss Enamel: Weather-resistant high-gloss enamel for use over primed ferrous metal surfaces:

E.

Devoe:	70XX Mirrolac Interior/Exterior Alkyd Gloss Enamel.
Glidden:	4500 Glid-Guard Industrial Enamel.
Moore:	Impervo High-Gloss Enamel #133.
Pittsburgh:	54 Line Quick-Dry Enamel.
P & L:	Effecto Enamel.
S-W:	Industrial Enamel B-54 Series.

E. Alkyd Gloss Enamel: Weather-resistant high-gloss enamel for use over primed, zinc-coated (galvanized) metal surfaces and aluminum:

Devoe	70XX Mirrolac Interior/Exterior Alkyd Gloss enamel.
Glidden:	4500-Line Glid-Guard Industrial Enamel.
Moore:	Impervo High-Gloss Enamel #133.
Pittsburgh:	54 Line Quick-Dry Enamel.
P & L:	Effecto Enamel.
S-W:	Metalastic 11 Enamel B-53 Series.

2.05 INTERIOR FINISH PAINT MATERIAL:

A. Latex-Based Interior Flat Paint: Ready-mixed, latex-based paint for use as a flat finish over concrete and masonry surfaces, including filled concrete masonry block, mineral-fiber-reinforced cement panels, and plaster and over prime-coated gypsum drywall, ferrous metal, and zinc – coated (galvanized) metal surfaces:

Devoe: 36XX Wonder-Tones Latex Flat Wall Paint.
Glidden: 3400 Spread Satin Latex Wall Paint.
Moore: Regal Wall Satin #215.
Pittsburgh: 80 Line Wallhide Flat Latex Paint.
P & L: Vapex Latex Flat Wall Finish.
S-W: Classic 99 Wall and Trim Paint A27W10.

2.06 MISCELLANEOUS WOOD FINISHING MATERIALS:

A. Oil-Type Interior Wood Stain: Slow-penetrating oil-type wood stain for general use on interior wood surfaces under varnish finishes:

Devoe: 96XX Wonder Woodstain Alkyd Stain.
Glidden: 1600 Woodmaster Oil Stain.
Moore: Two41 Moore's Interior Wood Finishes Penetrating Stain.
Pittsburgh: 77-302 Rez Medium Tint Base.
P & L: S-Series Tonetic Wood Stain.
S-W: Oil Stain A-48 Series.

B. Cut Shellac: Quick-drying, rosin-free, clear, general-purpose shellac varnish for use on the interior over stained and natural-finished woodwork for a clear finish:

Devoe: 4900 Wonder Woodsealer Quick-Dry Sealer.
Glidden: 5035 Ultra-Hide Sanding Sealer.
Moore: 413 Moore's Interior Wood Finishes Quick-Dry Sanding Sealer.
Pittsburgh: 77-30 Quick Drying Sanding Sealer.
S-W: Pro-Mar Varnish Sanding Sealer B26V3

PART 3 – EXECUTION:

3.01 EXAMINATION:

A. Examine substrates and conditions under which painting will be performed for compliance with requirements for application of paint. Do not begin paint application until unsatisfactory conditions have been corrected.

Start of painting will be construed as the Applicator's acceptance of surfaces and conditions within a particular area.

3.02 PREPARATION:

A. General Procedures: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items in place that are not to be painted, or provide surface-applied protection prior to surface preparation and painting. Remove these items if necessary for complete painting of the items and adjacent surfaces. Following completion of painting operations in each space or area, have items reinstalled by workers skilled in the trades involved.

1. Clean surfaces before applying paint or surface treatments. Remove oil and grease prior to cleaning. Schedule cleaning and painting so that dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

B. Surface Preparation: Clean and prepare surfaces to be painted in accordance with the manufacturer's instructions for each particular substrate condition and as specified.

1. Provide barrier coats over incompatible primers or remove and reprime. Notify Owner in writing of problems anticipated with using the specified finish-coat material with substrates primed by others.

2. Cementitious Materials: Prepare concrete, concrete masonry block, cement plaster, and mineral-fiber-reinforced cement panel surfaces to be painted. Remove efflorescence, chalk, dust, dirt, grease, oils, and release agents. Roughen as required to remove glaze. If hardeners or sealers have been used to improve curing, use mechanical methods of surface preparation.

Use abrasive blast-cleaning methods if recommended by the paint manufacturer.

Determine alkalinity and moisture content of surfaces by performing appropriate tests. If surfaces are sufficiently alkaline to cause blistering and burning of finish paint, correct this condition before application. Do not paint surfaces where moisture content exceeds that permitted in manufacturer's printed directions.

3. Wood: Clean surfaces of dirt, oil, and other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Sand surfaces exposed to view smooth and dust off.

Scrape and clean small, dry, seasoned knots and apply a thin coat of white shellac or other recommended knot sealer before application of primer. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sand smooth when dried.

Prime, stain, or seal wood to be painted immediately upon delivery. Prime edges, ends, faces, undersides, and backsides of wood, including cabinets, counters, cases, and paneling.

When transparent finish is required, backprime with spar varnish.

Backprime paneling on interior partitions where masonry, plaster or other wet wall construction occurs on backside.

Seal tops, bottoms, and cutouts of unprimed woods doors with a heavy coat of varnish or sealer immediately upon delivery.

4. Ferrous Metals: Clean nongalvanized ferrous-metal surfaces that have not been shop coated; remove oil, grease, dirt, loose mill scale, and other foreign substances. Use solvent or mechanical cleaning methods that comply with recommendations of the Steel Structures Painting Council.

Steel surfaces shall be cleaned as recommended by the paint system manufacturer and in accordance with requirements of SSPC specification SSPC-SP 10.

Touch up bare areas and shop-applied prime coats that have been damaged. Wire-brush, clean with solvents recommended by the paint manufacturer, and touch up with the same primer as the shop coat.

5. Galvanized Surfaces; Clean galvanized surfaces with non-petroleum-based solvents so that the surface is free of oil and surface contaminants. Remove pretreatment from galvanized sheet metal fabricated from coil stock by mechanical methods.

C. Materials Preparation: Carefully mix and prepare paint materials in accordance with manufacturer's directions.

Maintain containers used in mixing and application of paint in a clean condition, free of foreign materials and residue.

Stir material before application to produce a mixture of uniform density; stir as required during application. Do not stir surface film into material. Remove film and, if necessary, strain material before using.

Use only thinners approved by the paint manufacturer, and only within recommended limits.

3.03 APPLICATION:

A. Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied.

B. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.

1. Provide finish coats that are compatible with primers used.

2. The number of coats and film thickness required is the same regardless of the application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer. Sand between applications where sanding is required to produce and even smooth surface in accordance with the manufacturer's directions.

3. Apply additional coats when undercoats, stains, or other conditions show through final coat of paint until paint film is of uniform finish, color, and appearance. Give special attention to ensure that surfaces, including edges, corners, crevices, welds, and exposed fasteners, receive a dry film thickness equivalent to that of flat surfaces.

4. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, covers for finned tube radiation, grilles, and similar components are in place. Extend coatings in these areas as required to maintain the system integrity and provide desired protection.

5. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture with prime coat only before final installation of equipment.

6. Paint interior surfaces of ducts, where visible through registers or grilles, with a flat, nonspecular black paint.

7. Paint backsides of access panels and removable or hinged covers to match exposed surfaces.

8. Finish interior of wall and base cabinets and similar field-finished casework to match exterior.

9. Finish exterior doors on tops, bottoms, and side edges same as exterior faces.

10. Sand lightly between each succeeding enamel or varnish coat.

11. Omit primer on metal surfaces that have been shop-primed and touch up painted.

C. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.

Allow sufficient time between successive coats to permit proper drying. Do no recoat until paint has dried to where it feels firm, and does not deform or feel sticky under moderate thumb pressure and where application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.

D. Minimum Coating Thickness: Apply materials at not less than the manufacturer's recommended spreading rate. Provide a total dry film thickness of the entire system as recommended by the manufacturer.

E. Block Fillers: Apply block fillers to concrete masonry block at a rate to ensure complete coverage with pores filled.

F. Prime Coats: Before application of finish coats, apply a prime coat of material as recommended by the manufacturer to material that is required to be painted or finished and has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to assure a finish coat with no burn through or other defects due to insufficient sealing.

G. Stipple Enamel Finish: Roll and redistribute paint to an even and fine texture. Leave no evidence of rolling such as laps, irregularity in texture, skid marks, or other surface imperfections.

H. Pigmented (Opaque) Finishes: Completely cover to provide and opaque, smooth surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.

I. Transparent (Clear) Finishes: Use multiple coats to produce a glass-smooth surface film of even luster. Provide a finish, free of laps, cloudiness, color irregularity, runs, brush marks, orange peel, nail holes, or other surface imperfections.

Provide satin finish for final coats.

J. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not in compliance with specified requirements.

3.04 CLEANING:

A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from the site.

B. Upon completion of painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping, using care not to scratch or damage adjacent finished surfaces.

3.05 PROTECTION:

A. Protect work of other trades, whether to painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting as acceptable to Owner.

B. Provide: "wet paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others for protection of their work after completion of painting operations.

At completion of construction activities of other trades, touch up and restore-damaged or defaced painted surfaces.

3.06 EXTERIOR PAINT SCHEDULE:

A. General: Provide the following paint systems for the various substrates indicated.

B. Concrete, Stucco, and Masonry: (Other than concrete masonry units):

1. Lusterless (Flat) Acrylic Latex Finish: Two coats over block filler with total dry film thickness not less than 2.5 mils, excluding the block filler.

First Coat: Exterior Polyvinyl Acetate Emulsion (FS TT-P-55, type 11).
Second Coat: Exterior Polyvinyl Acetate, Emulsion (FS TT-P-55, Type 11).

C. Concrete Masonry Units:

1. Lusterless (Flat) Acrylic Finish: Two coats over block filler with total dry film thickness not less than 2.5 mils, excluding the block filler.

Block Filler: High-Performance Latex Block Filler.
First Coat: Exterior Acrylic Emulsion (FS TT-p-19).
Second Coat: Exterior Acrylic Emulsion (FS TT-P-19).

Primer: Exterior Primer Coating (FS TT-P-Tw05).
First Coat: Alkyd Gloss Enamel (TT-E-489).
Second Coat: Exterior Acrylic Emulsion (FS TT-P-19).

D. Wood:

1. Alkyd Gloss Finish: Two finish coats over primer with total dry film thickness not less than 3.5 mils.

Primer: Exterior Primer Coating (FS TT-P-25).
First Coat: Alkyd Gloss Enamel (TT-E-489).
Second Coat: Alkyd Gloss Enamel (TT-E-489).

2. Low-Luster Finish: Two finish coats over primer.

Primer: Exterior Primer Coating (FS TT-P-25).
First Coat: Exterior Acrylic Emulsion (FS TT-P-19).
Second Coat: Exterior Acrylic Emulsion (FS TT-P-19).

E. Wood Trim:

1. Deep Color, High-Gloss Alkyd Finish: Two finish coats over primer.

Primer: Exterior Primer Coating (FS TT-P-25).
First Coat: Deep Color Alkyd Resin Exterior Trim Paint (FS TT-P-37).
Second Coat: Deep Color Alkyd Resin Exterior Trim Paint (FSTT-P-37).

2. Medium-Shade, High-Gloss Alkyd Finish: Two finish coats over primer.

Primer: Exterior Primer Coating (FS TT-25).
First Coat: Medium-Shade, Ready-Mixed Exterior Oil Paint (FS TT-P-81).
Second Coat: Medium-Shade, Ready-Mixed Exterior Oil Paint (FS TT-P-81).

F. Plywood:

1. Lusterless (Flat) Acrylic Finish: Two finish coats over primer and sealer.

Sealer: Varnish-Type Surface Sealer (FS TT-S-176).
Primer: Exterior Primer Coating (TT-P-25).
First Coat: Exterior Acrylic Emulsion (FS TT-P-19).
Second Coat: Exterior Acrylic Emulsion (FS TT-P-19).

G. Stained Wood:

1. Flat Stain, No Finish: 1 coat

First Coat: Exterior Semi-Transparent oil Stain (FS TT-S-708).

H. Ferrous Metal: Primer is not required on shop-primed items.

1. Full-Gloss Alkyd Enamel: Two finish coats over primer.

Primer: Synthetic Rust-Inhibiting Primer (FS TT-P-664).
First Coat: Alkyd Gloss Enamel (FS TT-E-489).
Second Coat: Alkyd Gloss Enamel (FS TT-E-489).

2. Lusterless Alkyd Enamel: Two finish coats over primer.

Primer: Synthetic Rust-Inhibiting Primer (FS TT-P-664).
First Coat: Alkyd Gloss Enamel (FS TT-E-489).
Second Coat: Alkyd Gloss Enamel (FS TT-E-489).

3. Deep Color, High-Gloss Alkyd Trim Enamel: Two coats over primer.

Primer: Alkyd-Type Zinc Chromate Primer (FS TToP-645).
First Coat: Deep Color Alkyd Resin Exterior Trim Paint (FS TT-P-37).
Second Coat: Deep Color Alkyd Resin Exterior Trim Paint (FS TT-P-37).

I. Aluminum:

1. High-Gloss Alkyd Enamel: Two finish coats over primer.

Primer: Alkyd-Type Zinc Chromate Primer (FS TT-P-645).
First Coat: Alkyd Gloss Enamel (FS TT-E-489, Class A).
Second Coat: Alkyd Gloss Enamel (FS TT-E-489, Class A).

3.07 INTERIOR PAINT SCHEDULE:

A. General: Provide the following paint systems for the various substrates as indicated.

B. Concrete and Masonry: (Other than concrete masonry units):

1. Lusterless (Flat) Latex Finish: Two coats.
First Coat: Latex-Based Interior Flat Paint (FS TT-P-29).
Second Coat: Latex-Based Interior Flat Paint (FS TT-P-29).

2. Semigloss Enamel Finish: Three coats with total dry film thickness not less than 3.5 mils.

Primer: Latex-Based Interior Flat Paint (FS TT-P-29).
Undercoat: Interior Enamel Undercoat (FS TT-P-543).
Finish Coat: Interior Semigloss Odorless Alkyd Enamel (FS TT-E-509).

C. Concrete Masonry Units:

1. Semigloss Alkyd Enamel Finish: Two coats over filled surface with total dry film thickness not less than 3.5 mils, excluding filler coat.

Block Filler: High-Performance Latex Block Filler.
Undercoat: Interior Enamel Undercoat (FS TT-E-543).
Finish Coat: Interior Semigloss Odorless Alkyd Enamel (FS TT-E-509).

D. Gypsum Drywall Systems:

Lusterless (Flat) Emulsion Finish: Two coats.

Primer: Latex-Based Interior White Primer (FS TT-P-650).
Finish Coat: Latex-Based Interior Flat Paint (FS TT-P-29).

E. Woodwork and Hardboard:

1. Semigloss Enamel Finish: Three Coats.

Undercoat: Interior Enamel Undercoat (FS TT-E-543).
First Coat: Interior Semigloss Odorless Alkyd Enamel (FS TT-E509).
Second Coat: Interior Semigloss Odorless Alkyd Enamel (FS TT-E509).

F. Stained Woodwork:

1. Stained Varnish Polished Finish: Four finish coats over stain.

Stain Coat: Oil-Type Interior Wood Stain (FS TT-S-711).
First Coat: Cut Shellac (FS TT-S-300).
Second Coat: (Same).
Third Coat: (Same).
Fourth Coat: (Same).

G. Natural-Finish Woodwork:

1. Varnish Finish: Four coats.

First Coat: Cut Shellac (FS TT-S-300).

Second Coat: (Same).
Third Coat: (Same).
Fourth Coat: (Same).

H. Ferrous Metal:

1. Full-Gloss Enamel Finish: Two coats over primer with total dry film thickness not less than 2.5 mils.

Primer: Synthetic Rust-Inhibiting Primer (FS TT-P-664).
Undercoat: Interior Enamel Undercoat (FS TT-E543).
Finish Coat: Exterior Alkyd Gloss Enamel (FS TT-E-506).

I. Zinc-Coated Metal:

1. Full-Gloss Enamel Finish: Two coats over primer with total dry film thickness not less than 2.5 mils.

Primer: Galvanized Metal Primer (FS TT-P-641).
Undercoat: Interior Enamel Undercoat (FS TT-E-543).
Finish Coat: Exterior Alkyd Gloss Enamel (FS TT-E-506).

END of SECTION 09900