

SECTION 099000

PAINTING AND COATING

(Part of Work of Section 090007 - PAINTING, Filed Sub-Bid Required)

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS which are hereby made a part of this Section of the Specifications.

1.2 DESCRIPTION OF WORK

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
 - 1. Field painting of exposed interior items and surfaces.
 - 2. Field painting of exposed exterior items and surfaces.
 - 3. Surface preparation for painting.
 - 4. Sanding and finishing of existing cell benches.
- B. Alternates: Not Applicable.
- C. Items To Be Installed Only: Not Applicable.
- D. Items To Be Furnished Only: Not Applicable.
- E. Related Work: The following items are not included in this Section and will be performed under the designated Sections:
 - 1. Section 055000 - METAL FABRICATIONS for shop priming ferrous metal.
 - 2. Section 064023 - INTERIOR ARCHITECTURAL WOODWORK for shop priming interior architectural woodwork.
 - 3. Section 081113 - HOLLOW METAL DOORS AND FRAMES for factory priming steel doors and frames.
 - 4. Section 081416 - FLUSH WOOD DOORS for factory finishing.

1.3 DEFINITIONS AND EXTENT

- A. General: Standard coating terms defined in ASTM D 16 apply to this Section.
 - 1. Flat refers to a lusterless or matte finish with a gloss range below 15 when measured at an 85-degree meter.

2. Eggshell refers to low-sheen finish with a gloss range between 20 and 35 when measured at a 60-degree meter.
 3. Semigloss refers to medium-sheen finish with a gloss range between 35 and 70 when measured at a 60-degree meter.
 4. Full gloss refers to high-sheen finish with a gloss range more than 70 when measured at a 60-degree meter.
- B. This Section includes surface preparation and field painting of exposed exterior and interior items and surfaces.
1. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.
- C. Paint exposed surfaces, except where these Specifications indicate that the surface or material is not to be painted or is to remain natural. If an item or a surface is not specifically mentioned, paint the item or surface the same as similar adjacent materials or surfaces. If a color of finish is not indicated, Designer will select from standard colors and finishes available.
1. Painting includes field painting of exposed bare and covered pipes and ducts (including color coding), hangers, exposed steel and iron supports, and surfaces of mechanical and electrical equipment that do not have a factory-applied final finish.
- D. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels.
1. Prefinished items include the following factory-finished components:
 - a. Architectural woodwork.
 - b. Finished mechanical and electrical equipment.
 - c. Light fixtures.
 2. Concealed surfaces include walls or ceilings in the following generally inaccessible spaces:
 - a. Foundation spaces.
 - b. Furred areas.
 - c. Ceiling plenums.
 - d. Utility tunnels.
 - e. Pipe spaces.
 - f. Duct shafts.
 - g. Elevator shafts.
 3. Finished metal surfaces include the following:
 - a. Anodized aluminum.
 - b. Stainless steel.
 - c. Chromium plate.
 - d. Copper and copper alloys.
 - e. Bronze and brass.

4. Operating parts include moving parts of operating equipment and the following:
 - a. Valve and damper operators.
 - b. Linkages.
 - c. Sensing devices.
 - d. Motor and fan shafts.
5. Labels: Do not paint over UL, FMG, or other code-required labels or equipment name, identification, performance rating, or nomenclature plates.

1.4 SUBMITTALS

- A. Product Data: For each paint system indicated. Include block fillers and primers.
 1. Material List: An inclusive list of required coating materials. Indicate each material and cross-reference specific coating, finish system, and application. Identify each material by manufacturer's catalog number and general classification.
 2. Manufacturer's Information: Manufacturer's technical information, including label analysis and instructions for handling, storing, and applying each coating material.
- B. Samples for Verification: For each color and material to be applied, with texture to simulate actual conditions, on representative Samples of the actual substrate.
 1. Provide stepped Samples, defining each separate coat, including block fillers and primers. Use representative colors when preparing Samples for review. Resubmit until required sheen, color, and texture are achieved.
 2. Provide a list of materials and applications for each coat of each Sample. Label each Sample for location and application.
 3. Submit two eight inch by 12 inch Samples for each type of finish coating for Designer's review of color and texture only.
- C. Qualification Data: For Applicator.

1.5 QUALITY ASSURANCE

- A. Applicator Qualifications: A firm or individual experienced in applying paints and coatings 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 block fillers and primers for each coating system from the same manufacturer as the finish coats.
- C. Mockups: Provide a full-coat benchmark finish sample for each type of coating and substrate required. Comply with procedures specified in PDCA P5. Duplicate finish of approved sample Submittals.
 1. Designer will select one room or surface to represent surfaces and conditions for application of each type of coating and substrate.

- a. Wall Surfaces: Provide samples on at least 100 sq. ft.
 - b. Small Areas and Items: Designer will designate items or areas required.
2. Apply benchmark samples, according to requirements for the completed Work, after permanent lighting and other environmental services have been activated. Provide required sheen, color, and texture on each surface.
 - a. After finishes are accepted, Designer will use the room or surface to evaluate coating systems of a similar nature.
3. Final approval of colors will be from benchmark samples.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to Project site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label and the following information:
 1. Product name or title of material.
 2. Product description (generic classification or binder type).
 3. Manufacturer's stock number and date of manufacture.
 4. Contents by volume, for pigment and vehicle constituents.
 5. Thinning instructions.
 6. Application instructions.
 7. Color name and number.
 8. VOC content.
- B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg F. Maintain storage containers in a clean condition, free of foreign materials and residue.
 1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily.

1.7 PROJECT CONDITIONS

- A. Apply waterborne paints only when temperatures of surfaces to be painted and surrounding air are between 50 and 90 deg F.
- B. Apply solvent-thinned paints only when temperatures of surfaces to be painted and surrounding air are between 45 and 95 deg F.
- C. Do not apply paint in snow, rain, fog, or mist; or when relative humidity exceeds 85 percent; or at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.
 1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

1.8 EXTRA MATERIALS

- A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Paint: Furnish 2 unopened gallons of each type of paint and coating work, in color and gloss as used for the Project.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work are listed in the Finish Schedule at the end of this Section.

2.2 PAINT MATERIALS, GENERAL

- A. Material Compatibility: Provide block fillers, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
- B. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified that are factory formulated and recommended by manufacturer for application indicated. Paint-material containers not displaying manufacturer's product identification will not be acceptable.
 - 1. Proprietary Names: Use of manufacturer's proprietary product names to designate colors or materials is not intended to imply that products named are required to be used to the exclusion of equivalent products of other manufacturers. Furnish manufacturer's material data and certificates of performance for proposed substitutions.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements for paint application.
 - 1. Proceed with paint application only after unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
 - 2. Start of painting will be construed as Applicator's acceptance of surfaces and conditions within a particular area.

- B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
 - 1. Notify Designer about anticipated problems when using the materials specified over substrates primed by others.

3.2 PREPARATION

- A. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of size or weight of the item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
- B. Cleaning: Before applying paint or other surface treatments, clean substrates of substances that could impair bond of the various coatings. Remove oil and grease before cleaning.
 - 1. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.
- C. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions and technical bulletins for each particular substrate condition and as specified.
 - 1. Provide barrier coats over incompatible primers or remove and reprime.
 - 2. Cementitious Materials: Prepare concrete, concrete unit masonry, 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.
 - a. Use abrasive blast-cleaning methods if recommended by paint manufacturer.
 - b. Determine alkalinity and moisture content of surfaces by performing appropriate tests. If surfaces are sufficiently alkaline to cause the finish paint to blister and burn, correct this condition before application. Do not paint surfaces if moisture content exceeds that permitted in manufacturer's written instructions.
 - c. Clean concrete floors to be painted with a 5 percent solution of muriatic acid or other etching cleaner. Flush the floor with clean water to remove acid, neutralize with ammonia, rinse, allow to dry, and vacuum before painting.
 - 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.
 - a. Scrape and clean small, dry, seasoned knots, and apply a thin coat of white shellac or other recommended knot sealer before applying primer. After priming, fill

- holes and imperfections in finish surfaces with putty or plastic wood filler. Sand smooth when dried.
 - b. Prime, stain, or seal wood to be painted immediately on delivery. Prime edges, ends, faces, undersides, and back sides of wood, including cabinets, counters, cases, and paneling.
 - c. If transparent finish is required, backprime with spar varnish.
 - d. Backprime paneling on interior partitions where masonry, plaster, or other wet wall construction occurs on back side.
 - e. Seal tops, bottoms, and cutouts of unprimed wood doors with a heavy coat of varnish or sealer immediately on delivery.
4. Ferrous Metals: Clean ungalvanized 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 SSPC's recommendations.
- a. Blast steel surfaces clean as recommended by paint system manufacturer and according to SSPC-SP 6/NACE No. 3.
 - b. Treat bare and sandblasted or pickled clean metal with a metal treatment wash coat before priming.
5. Galvanized Surfaces: Clean galvanized surfaces with nonpetroleum-based solvents so surface is free of oil and surface contaminants. Remove pretreatment from galvanized sheet metal fabricated from coil stock by mechanical methods.
- D. Material Preparation: Mix and prepare paint materials according to manufacturer's written instructions.
- 1. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
 - 2. Stir material before application to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into material. If necessary, remove surface film and strain material before using.
 - 3. Use only thinners approved by paint manufacturer and only within recommended limits.
- E. Tinting: Tint each undercoat a lighter shade to simplify identification of each coat when multiple coats of same material are applied. Tint undercoats to match the color of the finish coat, but provide sufficient differences in shade of undercoats to distinguish each separate coat.

3.3 APPLICATION

- A. General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.
- 1. Paint colors, surface treatments, and finishes are indicated in the paint schedules.
 - 2. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
 - 3. Provide finish coats that are compatible with primers used.
 - 4. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, grilles, convector covers, covers for finned-tube radiation, and similar components are in

- place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.
5. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Before final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 6. Paint interior surfaces of ducts with a flat, nonspecular black paint where visible through registers or grilles.
 7. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.
 8. Finish exterior doors on tops, bottoms, and side edges the same as exterior faces.
 9. Sand lightly between each succeeding enamel or varnish coat.
- B. 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.
1. The number of coats and film thickness required are the same regardless of application method. Do not apply succeeding coats until previous coat has cured as recommended by manufacturer. If sanding is required to produce a smooth, even surface according to manufacturer's written instructions, sand between applications.
 2. Omit primer over metal surfaces that have been shop primed and touchup painted.
 3. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure that edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
 4. Allow sufficient time between successive coats to permit proper drying. Do not recoat surfaces until paint has dried to where it feels firm, and does not deform or feel sticky under moderate thumb pressure, and until application of another coat of paint does not cause undercoat to lift or lose adhesion.
- C. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
1. Brushes: Use brushes best suited for type of material applied. Use brush of appropriate size for surface or item being painted.
 2. Rollers: Use rollers of carpet, velvet-back, or high-pile sheep's wool as recommended by manufacturer for material and texture required.
 3. Spray Equipment: Use airless spray equipment with orifice size as recommended by manufacturer for material and texture required.
- D. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate to achieve dry film thickness indicated. Provide total dry film thickness of the entire system as recommended by manufacturer.
- E. Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to items exposed in equipment rooms and occupied spaces.
- F. Mechanical items to be painted include, but are not limited to, the following:
1. Uninsulated metal piping.

2. Uninsulated plastic piping.
3. Pipe hangers and supports.
4. Tanks that do not have factory-applied final finishes.
5. Visible portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets.
6. Duct, equipment, and pipe insulation having "all-service jacket" or other paintable jacket material.
7. Mechanical equipment that is indicated to have a factory-primed finish for field painting.

G. Electrical items to be painted include, but are not limited to, the following:

1. Switchgear.
2. Panelboards.
3. Electrical equipment that is indicated to have a factory-primed finish for field painting.

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

I. Prime Coats: Before applying finish coats, apply a prime coat, as recommended by manufacturer, to material that is required to be painted or finished and that 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 ensure a finish coat with no burn-through or other defects due to insufficient sealing.

J. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque 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.

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

1. Provide satin finish for final coats.

L. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

3.4 CLEANING

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

1. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

3.5 PROTECTION

- A. Protect work of other trades, whether being painted or not, against damage from painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Designer.
- B. Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, remove temporary protective wrappings provided by others to protect their work.
 - 1. After work of other trades is complete, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in PDCA P1.

3.6 PAINT SCHEDULE

- A. Schedule: Provide products and number of coats specified. Use of manufacturer's proprietary product names to designate colors, materials, generic class, standard of quality and performance criteria and is not intended to imply that products named are required to be used to the exclusion of equivalent performing products of other manufacturers.
- B. Exterior Paint Schedule:
 - 1. Exterior Masonry and Concrete to be Painted (where indicated):
 - One Coat
 - 1. Tnemec 156 Enviro-Crete at 6.0 to 10 mils DFT
 - 2. Liquid Plastics Acrylic at 8.0 to 10.0 mils DFT
 - 3. Dupont Tufcryn at 8.0 to 10.0 mils DFT
 - 4. Amercoat 147 at 6.0 to 10.0 mils DFT
 - 5. RD Coatings Elasto-Flex at 6.0 to 10.0 mils DFT
 - 6. S-W Loxon XP at 6.4 to 8.3 mils DFT
 - And One Coat
 - 1. Tnemec 156 Enviro-Crete at 8.0 to 10 mils DFT
 - 2. Liquid Plastics Acrylic at 8.0 to 10.0 mils DFT
 - 3. Dupont Tufcryn at 8.0 to 10.0 mils DFT
 - 4. Amercoat 147 at 6.0 to 10.0 mils DFT
 - 5. RD Coatings Elasto-Flex at 6.0 to 10.0 mils DFT
 - 6. S-W Loxon XP at 6.4 to 8.3 mils DFT
 - 2. Exterior Ferrous Metal, Urethane System:
(Surface Preparation: SSPC-SP6)
 - One Coat
 - 1. Tnemec 90-1K97 at 3 mils DFT; shop applied under other Sections; use for touch up
 - 2. PPG PMC 68 at 3 mils DFT; shop applied under other Sections; use for touch up
 - 3. Dupont Urethane Ganicin Zinc Rich Primer 80% zinc load at 3.0 mils DFT
 - 4. International Interzinc 315 at 2.0 to 3.0 mils DFT
 - 5. S-W Corothane Galvapac 1K at 2.0 to 4.0 mils DFT
 - And One Coat
 - 1. Tnemec N69 Hi-Build Epoxoline II at 3.0 mils DFT

2. PPG PMC Amerlock 400 Hi-Build Epoxy at 3.0 to 5.0 mils DFT.
 3. Dupont 25P High Solids Epoxy at 4.0 to 6.0 mils DFT
 4. International Intergard 475 HS at 4.0 to 8.0 mils DFT
 5. S-W Macropoxy 646 at 5.0 to 10.0 mils DFT
- And One Coat
 1. Tnemec 1075 Endura-Shield at 3.0 mils DFT
 2. PPG PMC Amerlock 450H Polyurethane Topcoat at 3.0 mils DFT
 3. Dupont High Solids Imron Urethane at 4.0 mils DFT
 4. International Interthane 990 HS at 2.0 to 3.0 mils DFT
 5. S-W Acrolon 218 HS at 3.0 to 6.0 mils DFT
3. Exterior Galvanized Metal (not shop-finished under Section 051200 - STRUCTURAL STEEL FRAMING or Section 055000 - METAL FABRICATIONS or :
(Surface Preparation: SSPC-SP7 Brush-off Blast)
 - One Coat
 1. Tnemec N69 Epoxoline at 3.0 mils DFT
 2. PPG PMC Amerlock 400 Hi-Build Epoxy at 4.0-5.0 mils DFT
 3. Dupont 25P High Solids at 4.0 mils DFT
 4. International Intergard 475 HS at 5.0 to 10.0 mils DFT
 5. S-W Macropoxy 646 at 5.0 to 10.0 mils DFT
 - And One Coat
 1. Tnemec V73 Endura-Shield at 3.0 mils DFT
 2. PPG PMC Amercoat 450H Polyurethane at 3.0 mils DFT
 3. Dupont Imron 2.8 Urethane at 3.0 to 4.0 mils DFT
 4. International Interthane 990 HS at 3.0 to 4.0 mils DFT
 5. S-W Acrolon 218 HS at 3.0 to 6.0 mils DFT
4. Exterior Aluminum (Where Required):
(Surface Preparation: Pressure Wash with Oakite and sanding with Scotch Bright pads)
 - One Coat
 1. Tnemec N69 Epoxoline at 2.0 mils DFT
 2. PPG PMC Amerlock 400 Hi-Build Epoxy at 2.0 to 3.0 mils DFT
 3. Dupont 25P High solids at 4.0 mils DFT
 4. International Intergard 475 HS at 5.0 to 10.0 mils DFT
 5. S-W Macropoxy 646 at 5.0 to 10.0 mils DFT
 - And One Coat
 1. Tnemec 1075U Endura-Shield at 2.0 mils DFT
 2. PPG PMC Amercoat 450H polyurethane at 3.0 mils DFT
 3. Dupont High Solids Imron 2.8 at 4.0 mils DFT
 4. International Interthane 990 HS at 3.0 to 4.0 mils DFT
 5. S-W Acrolon 218 HS at 3.0 to 6.0 mils DFT
5. Existing Exterior Painted Steel for Sandblasting and Finish:
(Surface Preparation- SSPC-SP 10 Near White Metal Blast)
 - One Coat
 1. Tnemec 90-97 or 901K97 at 3 to 3.5 mils DFT
 2. PPG PMC Amercoat 68 HS at 3.0 mils DFT
 3. Dupont Ganicin 80% Zinc load Zinc Rich Primer at 3.0 to 3.5 mils DFT
 4. S-W Corothane Galvapak 1K at 2.0 to 4.0 mils DFT

- And One Coat
 - 1. Tnemec 1075 Endura-Shield at 3.0 to 4.0 mils DFT
 - 2. PPG PMC Amerlock 400 at 4.0 DFT
 - 3. Dupont Imron 2.8 at 4.0 to 5.0 mils DFT
 - 4. S-W Acrolon 218 HS at 3.0 to 6.0 mils DFT
- And One Coat
 - 1. Tnemec 1070V or 1072V Flouornar at 2.5 to 3.5 mils DFT
 - 2. PPG PMC Corolon Coating at 5.0 mils DFT
 - 3. Dupont Fluoropolymer at 3.0 mils DFT
 - 4. S-W FluoroKem at 2.5 to 3.0 mils DFT

6. Existing Exterior Painted Steel for Overcoat Finish:
(Surface Preparation : Water Blast 5000 psi and SSPC-SP3 Power Tool Clean)

- One Coat
 - 1. Tnemec 394 Omnithane at 3.0 to 3.5 mils DFT
 - 2. PPG PMC Amerlock 400 Hi-Build Epoxy at 3.0 to 4.0 mils DFT
 - 3. RD Coatings Elasto Metal at 3.0 mils DFT
 - 4. International Interplus 356 at 3.0 to 5.0 mils DFT
 - 5. S-W Corothane Galvapac 1K at 2.0 to 4.0 mils DFT
- And One Coat
 - 1. Tnemec N69 Epoxoline at 3.0 to 5.0 mils DFT
 - 2. PPG PMC Amerlock 400 at 3.0 to 4.0 mils DFT
 - 3. RD Coatings Elasto Metal at 7.0 mils DFT
 - 4. International Intergard 475 HS at 5.0 to 10.0 mils DFT
 - 5. S-W Macropoxy 646 at 5.0 to 10.0 mils DFT
- And One Coat
 - 1. Tnemec 1075 Endura-Shield at 3.0 to 5.0 mils DFT
 - 2. PPG PMC Amercoat 450H at 3.0 mils DFT
 - 3. RD Coatings MurCryl at 3.0 to 4.0 mils DFT
 - 4. International Interthane 990 HS at 3.0 to 4.0 mils DFT
 - 5. S-W Acrolon 218 HS at 3.0 to 6.0 mils DFT

C. Interior Paint Schedule:

1. Interior Gypsum Wallboard and Plaster Walls for Latex Eggshell Finish:

- One Coat
 - 1. Moore Eco Spec WB Interior Latex Primer (372)
 - 2. Duron Genesis Latex Primer
 - 3. S-W Harmony Latex Wall Primer
 - 4. PPG Pure Performance Latex Primer
 - 5. Glidden Professional Lifemaster No VOC Latex Primer (9116)
- And Two Coats
 - 1. Moore Eco Spec WB Interior Latex Eggshell (374)
 - 2. Duron Genesis Latex Eggshell
 - 3. S-W ProMar 200 Zero VOC Latex Eggshell
 - 4. PPG Pure Performance Latex Eggshell
 - 5. Glidden Professional Lifemaster No VOC Latex Eggshell (9300)

2. Interior Gypsum Wallboard and Plaster Ceilings for Latex Flat Finish:

- One Coat
 - 1. Moore Eco Spec WB Interior Latex Primer (372)
 - 2. Duron Genesis Latex Primer
 - 3. S-W Harmony Latex Wall Primer
 - 4. PPG Pure Performance Latex Primer
 - 5. Glidden Professional Lifemaster No VOC Latex Primer (9116)
- And Two Coats
 - 1. Moore Eco Spec WB Interior Latex Flat (373)
 - 2. Duron Genesis Latex Flat
 - 3. S-W ProMar 200 Zero VOC Latex Flat
 - 4. PPG Pure Performance Latex Flat
 - 5. Glidden Professional Lifemaster No VOC Latex Flat (9100)
- 3. Interior Gypsum Wallboard and Plaster for Latex Semi-Gloss Finish:
 - One Coat
 - 1. Moore Eco Spec WB Interior Latex Primer (372)
 - 2. Duron Genesis Latex Primer
 - 3. S-W Harmony Latex Wall Primer
 - 4. PPG Pure Performance Latex Primer
 - 5. Glidden Professional Lifemaster No VOC Latex Primer (9116)
 - And Two Coats
 - 1. Moore Eco Spec WB Interior Latex Semi-Gloss (376)
 - 2. Duron Genesis Latex Semi-Gloss
 - 3. S-W ProMar 200 Zero VOC Latex Semi-Gloss
 - 4. PPG Pure Performance Latex Semi-Gloss
 - 5. Glidden Professional Lifemaster No VOC Latex Semi-Gloss (9200)
- 4. Flat Interior Architectural Woodwork, Finish Carpentry, and Wood Doors for Latex Semi-Gloss Paint Finish (softwoods, paint grade hardwoods, MDO, and hardwood veneers):
 - One Coat
 - 1. Moore Eco Spec WB Interior Latex Primer (372)
 - 2. Duron Genesis Latex Primer
 - 3. S-W Harmony Latex Primer
 - 4. PPG Pure Performance Latex Primer
 - 5. Glidden Professional Lifemaster No VOC Latex Primer (9116)
 - And Two Coats
 - 1. Moore Eco Spec WB Interior Latex Semi-Gloss (376)
 - 2. Duron Genesis Latex Semi-Gloss
 - 3. S-W ProMar 200 Zero VOC Latex Semi-Gloss
 - 4. PPG Pure Performance Latex Semi-Gloss
 - 5. Glidden Professional Lifemaster No VOC Latex Semi-Gloss (9200)
- 5. Interior Architectural Woodwork, Finish Carpentry and Millwork for Satin Transparent Finish (all hardwoods and hardwood veneers, except paint grade and factory-finished items):
 - Sand 120 grit sandpaper
 - Sand 220 grit sandpaper

- One Coat Stain 1. Carver Tripp Waterbase Stain
2. Knute's Restoration EF Waterbase Stain
3. American Formulating & Manuf., SafeCoat Durostain
4. S-W Minwax Water Based Stain
- And Two Coats 1. Bona Kemi USA, Bona Tech Mega Waterbase Polyurethane
2. Target Coatings, Oxford Hybrid Satin Varnish
3. American Formulating & Manuf., Polyureseal BP
2. S-W Minwax Water Based Polyurethane
- Sand Between 220 grit sandpaper
- Urethane Coats
2. S-W ProMar 200 Zero VOC Latex Semi-Gloss

6. Interior Concrete Block, Epoxy/Urethane Coating:
(Surface Preparation: Cured, clean and dry, free of surface contaminants)

- One Coat 1. Tnemec 130 Envirofil at 100 sqft/gal
2. PPG PMC Nu-Klad 114A at 100 sqft/gal
3. Dupont 25P at 100 sq/ft/gal
4. International Intercryl 320 at 80 sqft/gal
5. S-W Cement Plex 850 at 50 to 100 sq ft/gal
- And One Coat 1. Tnemec 280 Tneme-Glaze at 6.0 to 8.0 mils DFT
2. PPG PMC Amercoat 133 at 6.0 to 8.0 mils DFT
3. Dupont 100% Solids Epoxy at 7.0 to 9.0 mils DFT
4. International InterH2O 735 at 8.0 to 10.0 mils DFT
5. S-W Cor Cote HP B62-410 at 5.0 to 10.0 mils DFT
- And One Coat: 1. Tnemec 1080 Endura-Shield at 3.0 to 4.0 mils DFT
2. PPG PMC Amercoat 335 at 3.0 to 4.0 mils DFT
3. Dupont Imron WB Urethane at 3.0 to 4.0 mils DFT
4. International Water Borne Urethane at 3.0 to 4.0 mils DFT
5. S-W Waterbased Acrolon 100 at 3.0 to 4.0 mils DFT

7. Interior Concrete Walls Exposed to View, Epoxy Coating for Non-Immersion Service:
(Surface preparation- Cured, clean, dry and free of contaminants)

- One Coat 1. Tnemec 201 Epoxoprime at 2.0 to 3.0 mils DFT
2. PPG PMC Amerlock Sealer at 1.0 to 1.5 mils DFT
3. Dupont 25P Epoxy at 6.0 to 8.0 mils DFT
4. RD Coatings Multiprim at 2.0 mils DFT
5. International Interseal 670 HS at 3.0 to 4.0 mils DFT
6. S-W Coro Bond 100 at 4.0 to 6.0 mils DFT
- And One Coat 1. Tnemec 280 Tneme-Glaze at 6.0 to 8.0 mils DFT
2. PPG PMC Amercoat 133 at 6.0 to 8.0 mils DFT
3. Dupont 100% Solids Epoxy at 8.0 to 10.0 mils DFT
4. RD Coatings Elasto Metal at 8.0 to 10.0 mils DFT

5. International Interseal 670 HS at 3.0 to 4.0 mils DFT
 6. S-W Cor Cote HP B62-410 at 5.0 to 10.0 mils DFT
- And One Coat
 1. Tnemec 1080 Endura-Shield 2.0 to 3 mils DFT
 2. PPG PMC Amercoat 335 at 2.0 to 3.0 mils DFT
 3. Dupont WB Urethane at 3.0 to 4.0 mils DFT
 4. RD Coatings WB Urethane at 3.0 to 4.0 mils DFT
 5. S-W Waterbased Acrolon 100 at 2.0 to 3.0 mils DFT
8. Concrete Ceiling Coating –New or Previously Painted or Acoustical Plaster (Surface Preparation- Cured Clean and Dry)
 - One Coat
 1. Tnemec 151 Elasto-grip at 2.0 mils DFT
 2. International Intercryl 320 at 3.0 to 4.0 mils DFT
 3. S-W Loxon Conditioner at 1.5 to 2.5 mils DFT
 - And Two Coats
 1. Tnemec Series 1029 at 3.0 mils DFT
 2. International Intercryl 320 at 3.0 to 4.0 mils DFT
 3. S-W Ultra Crete Acrylic A44 at 50 to 80 sq ft /per gal
9. Interior Metals (Doors, Frames and Similar Items), Epoxy (Not specified to receive other coating systems/not shop finished):
 - One Coat
 1. Approved primer, in shop under other Sections (where specified).
If not shop primed, provide primer recommended by finish coating manufacturer
 - And One Coat
 1. Tnemec N69 Epoxoline at 2.0 mils DFT
 2. PPG PMC Amerlock 400 at 2.0 to 4.0 mils DFT
 3. Dupont 25P at 3.0 to 4.0 mils DFT
 4. International Interseal 670 HS at 3.0 mils DFT
 5. S-W Macropoxy 646 at 5.0 to 10.0 mils DFT
 - And One Coat
 1. Tnemec 1029 Tufcryl at 2.0 to 3.0 mils DFT
 2. PPG PMC Amerlock 400 at 2.0 to 4.0 mils DFT
 3. Dupont High Solids Acrylic Coating 3.0 mils DFT
 4. International Intercryl 530 at 3.0 to 4.0 mils DFT
 5. S-W DTM Acrylic at 2.5 to 4.0 mils DFT
10. Interior Exposed Steel, Joists, Ductwork, Conduit and Similar Items (where indicated):
 - One Coat
 1. Tnemec 115 WB Unibond or 15 Unibond at 2.5 to 3.0 mils DFT
 2. PPG PMC Amercoat 220 Acrylic at 3.0 mils DFT
 3. RD Muracryl at 2.5 to 3.0 mils DFT
 4. International Intercryl 530 at 2.5 to 3.0 mils DFT
 5. S-W Waterborne Dry Fall at 3.0 to 4.5 mils DFT
11. Mechanical and Electrical Work (Paint all exposed items throughout the project except factory finished items with factory-applied baked enamel finishes which occur in mechanical rooms or areas, and excepting chrome or nickel plating, stainless steel, and

aluminum other than mill finished. Paint all exposed ductwork and inner portion of all ductwork: Same as specified for other interior metals, hereinabove.

END OF SECTION