SECTION 09 9100

PAINTING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Painting and finishing of interior and exterior exposed items and surfaces throughout the project, except as specifically excluded. Paint new work which requires painting, and existing surfaces damaged by work of this project.

   a. Surface preparation and scheduled primers and coats are in addition to shop-priming and surface treatment specified in other sections.
   b. Except as excluded, paint surfaces whether or not they are listed on finish schedules. Paint the same as similar adjacent materials, or as selected from standard colors.

2. Miscellaneous Surfaces: Paint access doors, interior metal frames, registers, and similar items with semigloss enamel to match adjacent surfaces. Paint electric panel enclosures, pipe railings, exterior doors and frames, and similar items, with gloss enamel.
3. Field painting of exposed bare and covered pipes and ducts (including color coding), and of hangers, exposed steel and iron work, and primed (not finished) metal surfaces of equipment installed under mechanical and electrical specifications.
4. Paint surfaces behind fixed equipment or furniture with prime coat only, before installation of furniture or equipment.

B. Do not paint:

1. Prefinished items, for which factory finish or installer finishing is specified or selected, except for touch-up.
2. Materials with integral color finish, such as anodized aluminum, stainless steel, chromium plate, copper or bronze, acoustical tile, or integrally colored plaster.
3. Concealed surfaces: Walls or ceilings in concealed or generally inaccessible areas, foundation spaces, furred areas, utility tunnels, pipe spaces, duct shafts, elevator shafts, and surfaces behind fixed furniture and casework, except as specified above to be primed.
4. Operating parts.
5. Code-required labels and equipment identification, performance rating, name, or nomenclature plates.

1.2 SUBMITTALS:

A. Product data: For each product, submit manufacturer's technical information:

1. For paints, include analysis of contents by volume for major pigment and vehicle materials and proportions.
2. Include statement of VOC content and chemical components.
3. Include application instructions.

B. Shop drawings: If products other than those specified should be proposed, submit a complete schedule of all paint materials proposed for use, in the same format as the schedule included as part of this section.

C. Samples:

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1. Provide samples for each color and sheen required, labeled to identify corresponding items in the work.
2. Provide 12 by 12-inch (305 by 305-mm) samples on hardboard.
3. Prepare samples for each color, sheen, and texture required. Resubmit as required to arrive at final acceptable examples.
4. Submit samples of final approved systems. Submit the number required by Division 01 specifications and one to be maintained at the site as a standard for workmanship, finish, and color.

1.4 QUALITY ASSURANCE

A. Source and compatibility: Provide primers and undercoats produced or recommended by manufacturer of finish coats. Use only thinners approved by manufacturer, within recommended limits.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Labels: Label each container with:

1. Manufacturer's name.
2. Name of material.
3. Manufacturer's stock number and date of manufacture.
4. Federal Specification (FS) number, if applicable.
5. Instructions for mixing and reducing.
6. Color name and number.

B. Storage and protection:

1. Keep from freezing.
2. Maintain containers tightly covered and protected from foreign materials.

1.6 PROJECT CONDITIONS

A. Temperatures:

1. Apply water-based paints only when temperatures of surfaces and surrounding air are between 50 and 90 degrees F (10 and 32 degrees C).
2. Apply oil-based paints only when temperatures are between 45 and 95 degrees F (7 and 35 degrees C).
3. Apply varnishes when temperatures are at least 65 degrees F (18 degrees C).

B. Humidity: Do not paint in snow, rain, fog, or mist, or when relative humidity exceeds 85 percent, or on damp or wet surfaces.

1. Painting may continue during inclement weather if areas and surfaces are enclosed, ventilated, and heated or cooled within limits specified, for 24 hours before, during, and 48 hours after application and drying, except as otherwise required by manufacturer's instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Scheduled products, except as otherwise identified, are manufactured by Benjamin Moore & Co. Products of other manufacturers, meeting specified requirements, are acceptable.

2.2 MATERIALS

A. Scheduled products:

1. The scheduled product is intended to set a standard for type of system, composition of paints, and performance. Proposed products of other manufacturers shall meet or exceed this standard in every category.
2. Provide ready mixed to project site.

B. Lead content: If lead is present in pigment, it is to constitute not more than 0.06 percent, as lead metal, of total dry-film weight.

C. Chemical components: Products shall comply with Maryland Department of Environment requirements for Architectural Coatings, COMAR 26.11.33.

D. Accessory materials: Linseed oil, shellac, turpentine, paint thinners, and other materials not specifically listed but required to achieve finishes specified, of commercial quality.

2.3 FINISHES

A. Systems are scheduled at the end of Part 3.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Inspection: Examine areas and surfaces where painting work will be done. Do not begin until site conditions meet this specification and requirements for a satisfactory application.

B. Conditions: Do not paint over dirt, scale, rust, grease, moisture, scuffed surfaces, or other detrimental conditions.

3.2 PREPARATION

A. General:

1. Follow manufacturer's instructions and specified requirements for each type of surface.
2. Provide barrier coats over incompatible primers, or remove and reprime.
3. Remove hardware, accessories, machined surfaces, plates, light fixtures, and similar items in place and not to be painted, or provide protection. Reinstall and remove protective coatings after painting is complete.
4. Touch up shop-applied prime coats wherever damaged or bare. Sand hard, glossy prime coats to provide bonding for finish coats.

B. Ferrous metals: Use solvent or mechanical cleaning.

C. Galvanized metals: Clean with non-petroleum-based solvent.

3.3 PREPARING MATERIALS

A. Manufacturer's directions: Follow manufacturer's printed instructions.

B. Containers: Maintain clean and free of foreign materials or paint residue.

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C. Mixture: Stir before beginning and during application to maintain uniform density. If surface film should form, do not mix it into material but remove it and strain paint, if necessary, before proceeding.

D. Thinning: Do not thin paints with solvents which have been used to clean brushes and equipment.

3.4 APPLICATION

A. General:

1. Follow manufacturer's printed instructions.
2. Apply additional coats when undercoats or other conditions show through final coat.
3. Assure that edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equal to that on flat surfaces.
4. Paint backs of access panels and removable or hinged covers to match exposed surface.
5. Between coats of enamels and varnishes, sand lightly.
6. Allow sufficient time between coats for proper drying. Do not apply succeeding coat until underlying coats have dried or cured completely.
7. Apply materials at manufacturer's recommended rate to achieve minimum dry film thickness recommended or specified.

1. Electrical work to be painted includes, but is not limited to:

a. Conduit and fittings.

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

3.5 CLEANING AND PROTECTION

A. Cleaning:

1. During progress of work, remove from site discarded materials, rubbish, and rags at the end of each work day.
2. On completing work in each area, clean surfaces spattered with paint. Do not damage finished surfaces.

B. Protection: Protect surrounding work whether to be painted or not. Remove any protective wrappings after completion of painting. At completion of all work, return and touch up and restore damaged painted surfaces.

3.6 SCHEDULE: INTERIOR SURFACES

A. Concrete, brick, block, plaster, or drywall: Alkyd flat. Barrier coats or spot priming if required by site conditions.

1. Filler coat for block and other rough or pitted surfaces: Block filler 145
2. Primer instead of filler for smooth surfaces: Latex Quick Dry Prime Seal 201
3. Two coats Alkyd "Sani-Flat" 204

A. Ferrous metal: Latex semi-gloss.

1. One coat "Ironclad Retard-X" 162
2. Two coats "Regal Aquaglo" 333

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B. Ferrous metal: Alkyd gloss enamel

1. One coat "Ironclad Retardo" 163
2. Two coats "Impervo" high gloss enamel 133

C. Aluminum and galvanized steel: Latex semi-gloss.

1. One coat galvanized Metal Latex Primer 155
2. Two coats "Regal Aquaglo" 333

D. Concrete floor: High gloss polyamide epoxy.

1. One coat “Iron Clad” chemical-and water-resistant epoxy enamel 182, thinned with “Iron Clad” epoxy thinner 178.
2. One coat “Iron Clad” epoxy enamel 182 as packaged.

3.7 SCHEDULE: EXTERIOR SURFACES

A. Ferrous metal: Alkyd, eggshell.

1. One coat “Iron Clad Retardo” 163.
2. Two coats “Moore’s Eggshell Finish House Paint” 108.

B. Galvanized steel: Alkyd, eggshell.

1. One coat “Iron Clad” galvanized metal latex primer 155
2. Two coats “Eggshell Finish House Paint” 108.

C. Exterior Wood: Alkyd flat enamel to match existing.

1. Primer if damage exposes bare wood: “Moorwhite” Primer 100.
2. Two coats “Pentaflex” House Paint 114.

END OF SECTION

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