

SECTION 09911 - PAINTING

PART 1 - GENERAL

SUMMARY

This Section includes surface preparation and field painting of exposed [exterior] [and] [interior] items and surfaces.

PROJECT CONDITIONS

Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg F (7 deg C). Maintain storage containers in a clean condition, free of foreign materials and residue.

Apply waterborne paints only when temperatures of surfaces to be painted and surrounding air are between 50 and 90 deg F (10 and 32 deg C).

Apply solvent-thinned paints only when temperatures of surfaces to be painted and surrounding air are between 45 and 95 deg F (7 and 35 deg 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 (3 deg C) above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

PAINT MATERIALS, GENERAL

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.

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.

Colors: As selected from manufacturer's full range.

PREPARATORY COATS

Exterior Primer: Exterior alkyd or latex-based primer of finish coat manufacturer and recommended in writing by manufacturer for use with finish coat and on substrate indicated.

Ferrous-Metal and Aluminum Substrates: Rust-inhibitive metal primer.

Zinc-Coated Metal Substrates: Galvanized metal primer.

Where manufacturer does not recommend a separate primer formulation on substrate indicated, use paint specified for finish coat.

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Interior Primer: Interior latex-based or alkyd primer of finish coat manufacturer and recommended in writing by manufacturer for use with finish coat and on substrate indicated.

Ferrous-Metal Substrates: Quick drying, rust-inhibitive metal primer.

Zinc-Coated Metal Substrates: Galvanized metal primer.

Where manufacturer does not recommend a separate primer formulation on substrate indicated, use paint specified for finish coat.

EXTERIOR FINISH COATS

Exterior Low-Luster Acrylic Paint:

Benjamin Moore; MoorGard Latex House Paint No. 103.

Sherwin-Williams; SuperPaint Exterior Latex Satin Wall Paint A89 Series.

INTERIOR FINISH COATS

Interior Flat Latex-Emulsion Size:

Benjamin Moore; Colorscapes Interior Latex Flat No. 515.

Sherwin-Williams; SuperPaint Flat Wall Paint A86 Series.

Interior Semigloss Acrylic Enamel:

Benjamin Moore; Regal AquaGlo No. 333 Premium Interior Finishes Latex Semi-Gloss.

Sherwin-Williams; SuperPaint Interior Latex Semi-Gloss Enamel A88 Series.

PART 3 - EXECUTION

APPLICATION

Comply with procedures specified in PDCA P4 for inspection and acceptance of surfaces to be painted.

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.

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.

After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.

Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified.

Provide barrier coats over incompatible primers or remove and reprime.

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Cementitious Materials: 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.

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 applying 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 on delivery. Prime edges, ends, faces, undersides, and back sides of wood, including cabinets, counters, cases, and paneling.

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

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.

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

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.

Material Preparation:

Maintain containers used in mixing and applying 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. If necessary, remove surface film and strain material before using.

Exposed Surfaces: Include areas visible when permanent or built-in fixtures, grilles, convactor 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.

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.

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

Paint back sides of access panels and removable or hinged covers to match exposed surfaces.

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

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

Sand lightly between each succeeding enamel or varnish coat.

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.

Omit primer over metal surfaces that have been shop primed and touchup painted.

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.

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Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.

Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate. Provide total dry film thickness of the entire system as recommended by manufacturer.

Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to items exposed in equipment rooms and occupied spaces.

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

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.

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.

CLEANING AND PROTECTING

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

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 Architect.

Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, remove temporary protective wrappings provided by others to protect their work.

After work of other trades is complete, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in PDCA P1.

EXTERIOR PAINT SCHEDULE

Wood Trim:

Acrylic-Enamel Finish: Two finish coats over a primer.

Primer: Exterior wood primer for acrylic enamels.
Finish Coats: Exterior semigloss acrylic enamel., or

Alkyd-Enamel Finish: Two finish coats over a primer.

Primer: Exterior wood trim primer for full-gloss alkyd enamels.
Finish Coats: Exterior full-gloss alkyd enamel.

Ferrous Metal:

Acrylic Finish: Two finish coats over a rust-inhibitive primer.

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Primer: Exterior ferrous-metal primer (not required on shop-primed items).
Finish Coats: Exterior semigloss acrylic enamel.

Alkyd-Enamel Finish: Two finish coats over a rust-inhibitive primer.

Primer: Exterior ferrous-metal primer (not required on shop-primed items).
Finish Coats: Exterior full-gloss alkyd enamel.

Zinc-Coated Metal:

Acrylic Finish: Two finish coats over a galvanized metal primer.

Primer: Exterior galvanized metal primer.
Finish Coats: Exterior semigloss acrylic enamel.

Alkyd-Enamel Finish: Two finish coats over a galvanized metal primer.

Primer: Exterior galvanized metal primer.
Finish Coats: Exterior full-gloss alkyd enamel.

Aluminum:

Acrylic-Enamel Finish: Two finish coats over a primer.

Primer: Exterior aluminum primer under acrylic finishes.
Finish Coats: Exterior semigloss acrylic enamel.

Alkyd-Enamel Finish: Two finish coats over a primer.

Primer: Exterior aluminum primer under alkyd finishes.
Finish Coats: Exterior full-gloss alkyd enamel.

INTERIOR PAINT SCHEDULE

Concrete and Masonry:

Acrylic Finish: One finish coat over a primer.

Primer: Interior concrete and masonry primer.
Finish Coats: Interior flat acrylic paint.

Alkyd-Enamel Finish: One finish coat over a primer.

Primer: Interior concrete and masonry primer.
Finish Coats: Interior semigloss alkyd enamel.

Gypsum Board:

Acrylic Finish: Two finish coats over a primer.

Primer: Interior gypsum board primer.
Finish Coats: Interior flat acrylic paint.

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Wood and Hardboard:

Acrylic-Enamel Finish: Two finish coats over a primer.

Primer: Interior wood primer for acrylic-enamel and semigloss alkyd-enamel finishes.
Finish Coats: Interior low-luster acrylic enamel.

Alkyd-Enamel Finish: Two finish coats over a primer.

Primer: Interior wood primer for acrylic-enamel and semigloss alkyd-enamel finishes.
Finish Coats: Interior semigloss alkyd enamel.

Ferrous Metal:

Acrylic Finish: Two finish coats over a primer.

Primer: Interior ferrous-metal primer.
Finish Coats: Interior semigloss acrylic enamel, or

Alkyd-Enamel Finish: Two finish coats over a primer.

Primer: Interior ferrous-metal primer.
Finish Coats: Interior semigloss alkyd enamel.

Zinc-Coated Metal:

Acrylic Finish: Two finish coats over a primer.

Primer: Interior zinc-coated metal primer.
Finish Coats: Interior semigloss acrylic enamel.

Alkyd-Enamel Finish: Two finish coats over a primer.

Primer: Interior zinc-coated metal primer.
Finish Coats: Interior semigloss alkyd enamel.

INTERIOR STAIN AND NATURAL-FINISH WOODWORK SCHEDULE

Stain-Varnish Finish: Two finish coats of varnish over a sealer coat and interior wood stain. Wipe wood filler before applying stain.

Filler Coat: Open-grain wood filler.
Stain Coat: Interior wood stain.
Sealer Coat: Clear sanding sealer.
Finish Coats: Interior waterborne clear gloss varnish.

END OF SECTION 09911