SECTION 09 91 00 painting

1. GENERAL
   * + 1. RELATED DOCUMENTS
          1. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.
       2. SUMMARY
          1. Section Includes:

Surface preparation and the application of paint systems on exterior substrates.

Surface preparation and the application of paint systems on interior substrates.

RETAIN SUBPARAGRAPHS BELOW TO CROSS REFERENCE REQUIRMENTS CONTRACTOR MIGHT EXPECT TO FIND IN THIS SECTION BUT ARE SPECIFIED IN OTHER SECTIONS

* + - 1. REFERENCE STANDARDS
         1. The latest published edition of a reference shall be applicable to this Project unless identified by a specific edition date.
         2. Reference amendments adopted prior to the effective date of this Contract shall be applicable to this Project.
         3. Materials, installation and workmanship shall comply with the applicable requirements and standards.
      2. definitions
         1. "Paint" includes coating systems materials, primers, emulsions, enamels, stains, sealers and fillers, and other applied materials whether used as prime, intermediate, or finish coats.
         2. “Substrate" as used herein means the surface to which paint is to be applied. In the case of previously painted existing surfaces, substrate means the surface to which the existing paint was applied.

RETAIN TERMS THAT REMAIN AFTER THIS SECTION HAS BEEN EDITED FOR A PROJECT.

* + - * 1. Gloss Level 1: Not more than 5 units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.
        2. Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
        3. Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523.
        4. Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.
        5. Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
        6. Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.
      1. Submittals
         1. Product Data: For each type of Paint System, submit product data cut sheets, including preparation requirements and application instructions.

Formulate product data cut sheets into sets for each Paint System required.

* + - * 1. Samples for Verification: For each type of paint system and each color and gloss of topcoat.

Step coats on Samples to show each coat required for system.

Label each Sample with Paint System designation.

Label each Sample for location and application area.

Dry samples a minimum of 7-days before submitting.

Submit Samples on the following substrates for the Architect's review of color and texture only:

Edit following subparagraphs as applicable to project.

Concrete: Provide two 4-inch- (100-mm-) square samples for each color and finish.

Concrete Masonry: Provide two 4-by-8-inch (100-by-200-mm) samples of masonry, with mortar joint in the center, for each finish and color.

Painted Wood: Provide two 12-inch-(300-mm-) square samples of each color and material on hardboard.

Stained or Natural Wood: Provide two 4-by-8-inch (100-by-200‑mm) samples of natural- or stained-wood finish on actual wood surfaces.

Ferrous / Galvanized Metal: Provide two 4-inch-(100-mm-) square samples of flat metal and two 8-inch-(200-mm-) long samples of solid metal for each color and finish.

Gypsum Board / Plaster: Provide two 8-inches (200-mm) square samples on rigid backing.

* + - * 1. Product List: For each product indicated, include the following:

Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.

* + - 1. QUALITY ASSURANCE
         1. Single Source Responsibility: Provide primers and undercoat paint produced by the same manufacturer as the finish coats. Provide primer that is color compatible with color of second coat.

[COORDINATE PRIMERS SPECIFIED IN OTHER SECTIONS WITH FINISH MATERIAL IN THIS SECTION TO ASSURE COMPATIBLE PRIMERS. SOME FINISH‑COAT MATERIALS SUCH AS LACQUERS AND EPOXIES, "LIFT" OIL AND OLEORESINOUS AIR‑ DRY PRIMERS. A LONG‑OIL FINISH COAT MAY "CRAWL" AND HAVE POOR ADHESION WHEN USED OVER ZINC‑DUST PHENOLIC OR BAKED PRIMERS.]

[Architect/Engineer must delete everything in blue and in brackets before publishing]

* + - * 1. 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.
        2. Notify the Architect of problems anticipated using the materials specified.

[DELETE THE PARAGRAPHS BELOW IF FIELD SAMPLES (MOCK‑UP) ARE NOT REQUIRED. THIS REQUIREMENT IS NORMALLY USED ONLY IF SPECIAL CARE IS REQUIRED IN APPLICATION.]

* + - * 1. Field Samples: On wall surfaces and other exterior and interior components, duplicate finishes of prepared samples. Provide full‑ coat finish samples on at least 100 sq. ft. of surface until required sheen, color and texture are obtained; simulate finished lighting conditions for review of in‑place work.

Final acceptance of colors will be from job applied samples.

[DELETE THE NEXT PARAGRAPH IF THIS TYPE OF SAMPLE IS NOT REQUIRED. THIS REQUIREMENT IS NORMALLY USED IF SPECIAL CARE IS REQUIRED IN APPLICATION.]

The Architect will select one room or surface to represent surfaces and conditions for each type of coating and substrate to be painted. Apply coatings in this room or surface in accordance with the schedule or as specified. After finishes are accepted, this room or surface will be used for evaluation of coating systems of a similar nature.

* + - * 1. 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.

[RETAIN THE NEXT PARAGRAPH FOR AN "OPEN" SPECIFICATION WHEN MANUFACTURERS PRODUCTS ARE USED FOR IDENTIFICATION. REVISE FOR A "CLOSED" SPECIFICATION.]

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

[DELETE THE NEXT PARAGRAPH IF FEDERAL SPECIFICATIONS ARE NOT USED. NOTE THAT THERE ARE NO FEDERAL SPECIFICATIONS FOR SOME MATERIALS IN THIS SECTION.]

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.

[DELETE THE NEXT PARAGRAPH IF FEDERAL SPECIFICATIONS ARE DELETED OR VARIATIONS ARE NOT PERMITTED.]

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

[THE FOLLOWING PRODUCT CAN BE USED IN ALL TYPES OF PAINTS INCLUDING ALKYDS AND EPOXIES TO REDUCE/ELIMINATE ODORS.]

[WARNING: IT DOES NOT ELIMINATE THE VOCs HOWEVER, NORMALLY DELETE SINCE ALL STANDARD PAINT MATERIALS ARE VOC COMPLIANT.]

* + - * 1. Odor Eliminating Additive: At all locations scheduled to receive solvent or alkyd-based coatings, provide an odor-eliminating additive to minimize the presence of odor from wet and drying paint films.

Provide additive recommended and approved by the primer/finish coat manufacturer for use with their paint. Benjamin Moore does not recommend an “odor eliminator additive” for Benjamin. Moore Paints.

Subject to compliance with above requirements, "Bio Zapp Paint Odor Eliminator" by Bio Zapp Laboratories, (941/922-9199) is acceptable.

* + - 1. DELIVERY, STORAGE and HANDLING
         1. Deliver materials to the job site in the manufacturer's original, unopened packages and containers bearing manufacturer's name and label and the following information:

[ADD OTHER LABEL REQUIREMENTS AS NECESSARY TO SATISFY SPECIFIC PROJECT CIRCUMSTANCES.]

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.

* + - * 1. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg F (7 degrees 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.

[IF DESIRED, ADD SPECIAL PROJECT REQUIREMENTS FOR FIRE PROTECTION, HEATING, VENTILATION, AND OTHER SPECIAL CONDITIONS FOR STORAGE AREAS ON THE SITE.]

* + - 1. PROJECT conditions
         1. Apply water‑based paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 50 degrees F (10 degrees C) and 90 degrees F (32 degrees C).
         2. Apply solvent‑thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 degrees F (7 degrees C) and 95 degrees F (35 degrees C).
         3. Do not apply paint in snow, rain, fog, or mist, when the relative humidity exceeds 85 percent, at temperatures less than 5 degrees F (3 degrees 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.

1. PRODUCTS
   * + 1. MANUFACTURErS
          1. Benjamin Moore Company (Interior and Exterior)
          2. PPG Paints (Exterior only)
          3. Sherwin-Williams Company (The) (Interior and Exterior)
       2. PAINT, GENERAL
          1. Material Compatibility:

Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.

For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.

* + - * 1. VOC Content: For interior paints and coatings applied at Project site, the following VOC limits, exclusive of colorants added to a tint base, when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

Flat Paints and Coatings: 50 g/L.

Nonflat Paints and Coatings: 150 g/L.

Dry-Fog Coatings: 400 g/L.

Primers, Sealers, and Undercoaters: 100 g/L.

Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250 g/L.

Zinc-Rich Industrial Maintenance Primers: 340 g/L.

Pretreatment Wash Primers: 420 g/L.

Floor Coatings: 100 g/L.

Shellacs, Clear: 730 g/L.

Shellacs, Pigmented: 550 g/L.

* + - * 1. Colors: Provide custom colors of the finished paint systems to match the Architect's samples.
      1. SOURCE QUALITY CONTROL

Retain this article for large projects or critical coatings where additional control is needed. Delete if tests are not required.

* + - * 1. Testing of Paint Materials: Owner reserves the right to invoke the following procedure:

Owner will engage the services of a qualified testing agency to sample paint materials. Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.

Testing agency will perform tests for compliance with product requirements.

Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

1. EXECUTION
   * + 1. EXAMINATION
          1. 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.
          2. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:

Concrete: 12 percent.

Fiber-Cement Board: 12 percent.

Masonry (Clay and CMUs): 12 percent.

Wood: 15 percent.

Gypsum Board: 12 percent.

Plaster: 12 percent.

* + - * 1. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
        2. Plaster Substrates: Verify that plaster is fully cured.
        3. Spray-Textured Ceiling Substrates: Verify that surfaces are dry.
        4. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
        5. Proceed with coating application only after unsatisfactory conditions have been corrected.

Application of coating indicates acceptance of surfaces and conditions.

* + - 1. PREParation
         1. General Procedures: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and related 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.

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.

* + - * 1. Surface Preparation: Clean and prepare surfaces to be painted in accordance with the manufacturer's instructions for each substrate condition and as specified.

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

[DELETE THE PARAGRAPHS BELOW IF CEMENTITIOUS SURFACES ARE NOT TO BE PAINTED, OR REVISE TO SUIT PROJECT REQUIREMENTS.]

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.

[DELETE THE NEXT PARAGRAPH IF THIS PROCEDURE IS NOT REQUIRED.]

Clean concrete floors to be painted with a 5 percent solution of muriatic acid or another etching cleaner. Flush the floor with clean water to remove acid, neutralize with ammonia, and rinse; allow to dry and vacuum before painting.

[DELETE THE PARAGRAPHS BELOW IF WOOD SURFACES ARE NOT TO BE PAINTED, OR REVISE TO SUIT THE PROJECT SITUATION.]

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.

[DELETE THE PARAGRAPHS BELOW IF THESE REQUIREMENTS ARE SPECIFIED IN OTHER SECTIONS.]

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, back prime with spar varnish.

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

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

Ferrous Metals: Clean non-galvanized 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.

[DELETE THE NEXT PARAGRAPH IF BLAST CLEANING IS NOT REQUIRED. THE METHOD (SSPC‑SP 10) REQUIRES A HIGHER LEVEL OF PREPARATION THAN IS OFTEN JUSTIFIED. REDUCE PREPARATION LEVEL TO SSPC‑SP 6 IF WARRANTED.]

Blast steel surfaces clean as recommended by the paint system manufacturer and in accordance with requirements of SSPC specification SSPC‑SP 10.

[DELETE THE NEXT PARAGRAPH IF THIS TREATMENT IS NOT REQUIRED.]

Treat bare and sandblasted or pickled clean metal with a metal treatment wash coat before priming.

[DELETE THE NEXT PARAGRAPH IF TOUCHUP PAINTING OF SHOP‑APPLIED PRIMERS WILL BE DONE BY THE MATERIAL ERECTOR OR INSTALLER.]

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.

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.

* + - * 1. 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.

[DELETE THE NEXT PARAGRAPH IF TINTING IS NOT REQUIRED. THE DIFFERENCES COULD SHOW THROUGH WHEN THE TOPCOAT ERODES.]

* + - * 1. Tinting: Tint each undercoat a lighter shade to facilitate identification of each coat where multiple coats of the 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.
      1. surface preparation of previously coated surfaces
         1. General:

Remove cracked and deteriorated sealants and caulking.

Remove chalk deposits and loose, blistered, peeling, scaling, or crazed finish to bare base material or sound substrate by scraping and sanding.

Wash surfaces with solution of TSP to remove wax, oil, grease, and other foreign material; rinse, and allow to dry. Exercise caution that TSP solution does not soften existing coating.

Abrade glossy surfaces by sanding or wiping with liquid de-glosser.

Remove mildew as specified above.

Test compatibility of existing coatings by applying new coating to small, inconspicuous area. If new coatings lift or blister existing coatings, provide test results and recommendations from paint manufacturer to Architect.

Apply specified primer to surfaces scheduled to receive coatings.

* + - * 1. Gypsum Board:

Fill cracks and voids with spackling compound.

Apply primer over bare surfaces and newly applied texture coatings.

* + - * 1. Metal:

Remove rust from surfaces to bare metal in accordance with SP3 "Power Tool Cleaning."

Exercise care not to remove galvanizing.

Complete preparation as specified for new work.

* + - * 1. Wood:

Fill cracks, crevices and nail holes with putty or wood filler.

Apply primer over bare surfaces and filler material.

* + - * 1. Polyethylene Terephthalate Glycol (PETG, commonly used for FRP and Handrails):

Wipe bumpers and handrails down with alcohol.

Prime: Bumpers or handrails with 50% BM Advance Primer and 50% BM Eco-Spec paint in eggshell epoxy

Second Coat: Benjamin Moore Advance in Satin

* + - 1. installation
         1. Installation shall meet or exceed all applicable federal, state and local requirements, referenced standards and conform to codes and ordinances of authorities having jurisdiction.
         2. Installation shall be in accordance with manufacturer’s published recommendations.
      2. APPLICATION
         1. Paint exposed surfaces, except where the paint schedules indicate that a surface or material is not to be painted or is to remain natural. If the paint schedules do not specifically mention an item or a surface, paint the item or surface the same as similar adjacent materials or surfaces whether schedules indicate colors. If the schedules do not indicate color or finish, the Architect will select from standard colors and finishes available.

Painting includes identifying fire-rated wall assemblies with stenciled lettering above ceiling. Provide stenciled block letters in red to identify each rated wall assembly. Refer to Section 09 29 00

Stairs: Paint exposed surfaces including underside.

* + - * 1. Paint Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:

Paint the following work where exposed in equipment rooms:

List below contains items that are often field painted, plus others that are often not. Revise list to suit Project.

Uninsulated metal piping.

Uninsulated plastic piping.

Pipe hangers and supports.

Metal conduit.

Plastic conduit.

Tanks that do not have factory-applied final finishes.

Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.

Paint the following work where exposed in occupied spaces:

List below contains items that are usually field painted. Revise list to suit Project.

Equipment, including panelboards.

Uninsulated metal piping.

Uninsulated plastic piping.

Pipe hangers and supports.

Metal conduit.

Plastic conduit.

Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.

Unfinished and primed louvers and grilles, covers,

Exposed and insulated pipes.

Factory primed equipment.

Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces.

* + - * 1. Exterior metal items to be painted include, but are not limited to,

Lintels.

Bollards.

Architectural steel.

Galvanized metal flashings.

Miscellaneous exposed steel.

Steel doors and frames.

Stairs.

Handrails and railings.

* + - * 1. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels.

Prefinished items include the following factory-finished components:

Architectural woodwork and casework.

Metal lockers.

Elevator entrance doors and frames.

Elevator equipment.

Finished mechanical and electrical equipment.

Light fixtures.

Panelboards and switch gear

Concealed surfaces include walls or ceilings in the following inaccessible spaces:

Furred areas.

Ceiling plenums.

Utility tunnels.

Pipe spaces.

Duct shafts.

Elevator shafts.

Finished metal surfaces include the following:

Anodized aluminum.

Stainless steel.

Chromium plate.

Copper.

Bronze and brass.

* + - * 1. Apply paints according to manufacturer's written instructions and recommendations in "MPI Manual."

Use applicators and techniques suited for paint and substrate indicated.

Paint surfaces behind movable items, equipment, furniture, etc. the same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items, equipment, furniture, etc. with prime coat only.

Paint both sides and edges of doors and entire exposed surface of door frames.

Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.

Retain first subparagraph below if required for steel windows.

Paint entire exposed surface of window frames and sashes.

Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.

Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.

Spray Equipment: Use airless spray equipment with orifice size as recommended by the manufacturer for the material [**and texture**] required. Confirm use of spray equipment is acceptable to building owner in occupied areas.

* + - * 1. 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.
        2. Tint undercoats same color as topcoat but tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Provide sufficient difference in shade of undercoats to distinguish each separate coat.
        3. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
        4. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

DELETE THE FOLLOWING IF NO PAINTED CMU.

* + - * 1. Block Fillers: Apply block fillers to concrete masonry block at a rate to ensure complete coverage with pores filled.
        2. Prime Coats: Before applying finish coats, apply a prime coat of material, as recommended by the 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.
        3. 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.

DELETE THE FOLLOWING PARAGRAPH IF NO CLEAR FINISHES.

* + - * 1. 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.

Provide satin finish for final coats.

* + - 1. FIELD QUALITY CONTROL
         1. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.
         2. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.

Contractor shall touch up and restore painted surfaces damaged by testing.

If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

* + - 1. CLEANING AND PROTECTION
         1. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
         2. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
         3. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
         4. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.
      2. EXTERIOR PAINTING SCHEDULES

RETAIN THIS ARTICLE FOR EXTERIOR PAINT SYSTEMS. EDIT THE FOLLOWING PARAGRAPHS AS APPLICABLE TO PROJECT.

* + - * 1. Steel, Unprimed (Su) Substrates:

Paint System Su-A5: Semigloss, Exterior Acrylic-Enamel Finish: Primer is not required on shop-primed items; touch up shop primer where provided.

PPG:

First Coat: 90-712 Pitt-Tech Int/Ext Primer/Finish DTM, 2.5 mils DFT

Second Coat: Pitt-Tech Plus High Semi-Gloss DTM 90-1210 Series, 2.0 – 4.0 mils DFT.

B-M:

First Coat: Benjamin Moore HP1100 Acrylic Metal Primer

Second Coat: Benjamin Moore Hp3310 DTM Acrylic Enamel Semi-Gloss

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310 2.0 – 4.0 DFT.

Second Coat: Sher-Cryl HPA Semi-Gloss, B66-350 Series 2.5 – 4.0 DFT.

* + - * 1. Steel, Zinc-Coated (Galvanized) (Sg):

Paint System Sg-A5: Semigloss, Exterior Acrylic-Enamel Finish:

PPG:

First Coat: 90-712 Pitt-Tech Int/Ext Primer/Finish DTM, 2.5 mils DFT orPitt-Tech Plus Primer/Finish DTM 90-912, 2.5 mils DFT.

Second Coat: 90-474 Pitt-Tech Int/Ext Satin DTM, 2.5 mils DFT orPitt-Tech Plus Semi-Gloss DTM 90-1210 Series, 2.0-4.0 mils DFT.

Third Coat: Same as second coat.

B-M:

First Coat: Benjamin Moore HP1100 Acrylic Metal Primer

Second Coat: Benjamin Moore Hp3310 DTM Acrylic Enamel Semi-Gloss

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310

2.0 -4.0 DFT.

Second Coat: Sher-Cryl HPA Semi-Gloss, B66-350 Series

2.5 – 4.0 DFT.

Third Coat: Same as second.

* + - * 1. Steel, Factory-Primed (Sp) Substrates:

Paint System Sp-L5: Semigloss, Exterior Acrylic-Enamel Finish:

PPG:

First Coat: Pitt-Tech Int/Ext Primer/Finish DTM 90-712 orPitt-Tech Plus Primer/Finish DTM 90-912 Series, 2.5 mils DFT.

Second Coat: Pitt-Tech Plus Semi-Gloss DTM 90-1210 Series, 2.0 – 4.0 mils DFT.

Third Coat: Same as second coat.

B-M:

First Coat: Benjamin Moore HP1100 Acrylic Metal Primer

Second Coat: Benjamin Moore Hp3310 DTM Acrylic Enamel Semi-Gloss

SW:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310

2.0 -4.0 DFT.

Second Coat: Sher-Cryl HPA Semi-Gloss, B66-350 Series

2.5 – 4.0 DFT.

Third Coat: Same as second coat.

* + - * 1. Fiber-Reinforced Cement (Fc) Substrates:

Paint System Fc-A3: Eggshell, Exterior Acrylic Finish:

PPG:

Primer: Touch-up factory primer as required.

Second Coat: Speedhide Satin 6-2045XI, 1.4 mils DFT.

Third Coat: Same as second coat.

B-M:

First Coat: Benjamin Moore 608 Ultra Spec® Masonry Interior/Exterior 100% Acrylic Sealer

Second Coat: Benjamin Moore N448 Ultra Spec® EXT Satin Finish

SW:

Primer: Touch-up factory primer as required.

Second Coat:   A-100 Exterior Latex Satin, A82-100 Series 1.2 – 1.5 mils DFT.

Third Coat:   Same as second.

* + - * 1. Wood and Exterior Architectural Woodwork (Ww) Substrates:

Paint System Ww-A3: Eggshell, Exterior Acrylic Finish:

PPG:

Primer: Speedhide 6-609 Ext. House and Trim Wood Primer, 1.3 – 1.6 mils DFT.

Second Coat: Speedhide Satin 6-2045XI, 1.4 mils DFT.

Third Coat: Same as second coat.

B-M:

First Coat: Benjamin Moore 046 Fresh Start interior/exterior 100% acrylic primer

Second Coat: Benjamin Moore N448 Ultra Spec® EXT Satin Finish

S-W:

First Coat: Exterior Latex Wood Primer, B42W8041.

Second Coat: A-100 Exterior Latex Satin, A82-100 Series 1.2 – 1.5 mils DFT.

Third Coat: Same as second.

* + - * 1. Stucco Substrates:

Refer to Division 09 Section [“Elastomeric Coating”][“Acrylic Textured Coating”].

* + - 1. INTERIOR PAINT SCHEDULES

RETAIN THIS ARTICLE FOR INTERIOR PAINT SYSTEMS

EDIT THE FOLLOWING PARAGRAPHS AS APPLICABLE TO PROJECT.

* + - * 1. Concrete (Co) Substrates, Nontraffic Surfaces:

Paint System Co-L6: Latex, Gloss Finish:

B-M:

First Coat: 608 Ultra Spec® Masonry Int/Ext 100% Acrylic Sealer

Second Coat: HP3300 DTM Acrylic Enamel Gloss

Third Coat: Same as second.

S-W:

First Coat: Loxon Concrete & Masonry Primer, A24W8300.

Second Coat: Pro Industrial Zero VOC Gloss Acrylic, B66-600 Series.

Third Coat: Same as second.

Paint System Co-L5: Latex, Semigloss Finish:

B-M:

First Coat: 608 Ultra Spec Masonry Int/Ext 100% Acrylic Sealer

Second Coat: T546 Ultra Spec® 500 Zero VOC Interior Latex Semi-Gloss

Third Coat: Same as second

S-W:

First Coat: Loxon Concrete & Masonry Primer, A24W8300.

Second Coat: ProMar 200 Zero VOC Semi-Gloss Acrylic, B31-2600 Series.

Third Coat: Same as second.

Paint System Co-L3: Latex, Eggshell Finish:

S-W:

First Coat: Loxon Concrete & Masonry Primer, A24W8300.

Second Coat: ProMar 200 Zero VOC Eg-Shel B20-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: 608 Ultra Spec® Masonry Int/Ext 100% Acrylic Sealer

Second Coat: T538 Ultra Spec® 500 Zero VOC Interior Latex Egg-Shel

Third Coat: Same as second.

Paint System Co-L1: Latex, Flat Finish:

S-W:

First Coat: Loxon Concrete & Masonry Primer, A24W8300.

Second Coat: ProMar 200 Zero Odor Low VOC Flat, B30-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: 608 Ultra Spec Masonry Int/Ext 100% Acrylic Sealer

Second Coat: T535 Ultra Spec® 500 Zero VOC Interior Latex Flat

Third Coat: Same as second

Paint System Co-D1:Water-Based Dry-Fall, Flat Finish:

S-W:

First Coat: Waterborne Acrylic Dry Fall, B42W1.

Second Coat: Waterborne Acrylic Dry Fall, B42W1.

B-M:

First Coat: 395 Benjamin Moore® Latex Dry Fall Flat

Second Coat: 395 Benjamin Moore® Latex Dry Fall Flat

Paint System Co-X5: Waterborne Epoxy, Semigloss Finish:

S-W:

First Coat: Pre-Catalyzed Water Based Epoxy Semi-Gloss, K46-150 Series.

Second Coat: Pre-Catalyzed Water Based Epoxy Semi-Gloss, K46-150 Series.

B-M:

First Coat: HP3410 HP Pre-Catalyzed Waterborne Epoxy Semi-Gloss

Second Coat: HP3410 HP Pre-Catalyzed Waterborne Epoxy Semi-Gloss

Third Coat: Same as second

* + - * 1. Brick / Clay Masonry (Br) Substrates:

Paint System Br-L1: Latex, Flat Finish:

SW:

First Coat: Loxon Concrete & Masonry Primer, A24W8300.

Second Coat: ProMar 200 Zero VOC Flat, B30-2600 Series.

Third Coat: Same as second coat.

B-M:

First Coat: 608 Ultra Spec Masonry Int/Ext 100% Acrylic Sealer

Second Coat: T535 Ultra Spec® 500 Zero VOC Interior Latex Flat

Third Coat: Same as second

* + - * 1. Concrete Masonry Unit (Cm) Substrates

Paint System Cm-L6: Latex, Gloss Finish:

S-W:

First Coat: PrepRite Block Filler, B25W25.

Second Coat: Pro Industrial Zero VOC Gloss Acrylic, B66-600 Series.

Third Coat: Same as second.

B-M:

First Coat 571 Ultra Spec Hi-Build Masonry Block Filler

Second Coat: HP3300 DTM Acrylic Enamel Gloss

Paint System Cm-L5: Latex, Semigloss Finish:

S-W:

First Coat: PrepRite Block Filler, B25W25.

Second Coat: ProMar 200 Zero VOC Semi-Gloss Acrylic, B31-2600 Series.

Third Coat: Same as second.

B-M:

First Coat 571 Ultra Spec Hi-Build Masonry Block Filler

Second Coat: T546 Ultra Spec® 500 Zero VOC Interior Latex Semi-Gloss

Third Coat: Same as second

Paint System Cm-L3: Latex, Eggshell Finish:

S-W:

First Coat: PrepRite Block Filler, B25W25.

Second Coat: ProMar 200 Zero VOC Eg-Shel, B20-2600 Series.

Third Coat: Same as second.

B-M:

First Coat 571 Ultra Spec Hi-Build Masonry Block Filler

Second Coat: T538 Ultra Spec® 500 Zero VOC Interior Latex Egg-Shell

Third Coat: Same as second

Paint System Cm-L1: Latex, Flat Finish:

S-W:

First Coat: PrepRite Block Filler, B25W25.

Second Coat: ProMar 200 Zero VOC Flat, B30-2600 Series.

Third Coat: Same as second.

B-M:

First Coat 571 Ultra Spec Hi-Build Masonry Block Filler

Second Coat: T535 Ultra Spec® 500 Interior Latex Flat

Third Coat: Same as second

Paint System Cm-X5: Waterborne Epoxy, Semigloss Finish:

S-W:

First Coat: Loxon Block Surfacer, A24W200.

Second Coat: Pre-Catalyzed Water Based Epoxy Semi-Gloss, K46-150 Series.

Third Coat: Same as second.

B-M:

First Coat 571 Ultra Spec Hi-Build Masonry Block Filler

Second Coat: HP3410 HP Pre-Catalyzed Waterborne Epoxy Semi-Gloss

Third Coat: Same as second

* + - * 1. Steel, Unprimed (Su) Substrates

Paint System Su-L6: Latex, Gloss Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Pro Industrial Zero VOC Gloss Acrylic, B66-600 Series.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: HP3300 DTM Acrylic Enamel Gloss

Third Coat: Same as second.

Paint System Su-L5: Latex, Semigloss Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Pro Industrial Zero VOC Semi-Gloss Acrylic, B66-650.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: HP3310 DTM Acrylic Enamel Semi-Gloss

Third Coat: Same as second.

Paint System Su-L3: Latex, Eggshell Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Pro Industrial Zero VOC Satin Acrylic, B66-660 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec HP1100 Acrylic Metal Primer

Second Coat: HP3320 Acrylic DTM Enamel Satin

Third Coat: Same as second.

Paint System Su-L1: Latex, Flat Finish:

S-W:

First Coat: Pro Industrial Pro-Cryl®Universal Primer, B66-310.

Second Coat: ProMar 200 Low VOC Flat, B30-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec HP1100 Acrylic Metal Primer

Second Coat: Ultra Spec 500 Zero VOC Interior Latex Flat T535

Third Coat: Same as second.

Paint System Su-D1: Water-Based Dry-Fall, Flat Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Waterborne Acrylic Dry Fall, B42W1.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec HP1100 Acrylic Metal Primer

Second Coat: Benjamin Moore 395 Latex Dryfall Flat

Third Coat: Same as second.

Paint System Su-X5: Waterborne Epoxy, Semigloss Finish:

S-W:

First Coat: Pro Industrial Pro-Cryl®Universal Primer, B66-310.

Second Coat: Pre-Catalyzed Water Based Epoxy Semi-Gloss, K46-150 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec HP1100 Acrylic Metal Primer

Second Coat: HP3410 Pre-Catalyzed Waterborne Epoxy

Third Coat: Same as second.

* + - * 1. Steel, Factory-Primed (Sp) Substrates

Paint System Sp-L6: Latex, Gloss Finish:

S-W:

First Coat: Touch-up primer if compatible, or provide barrier coat.

Second Coat: Pro Industrial Zero VOC Gloss Acrylic, B66-600 Series.

Third Coat: Same as second

B-M:

First Coat: Touch-up primer if compatible or provide barrier coat.

Second Coat: HP3300 Acrylic DTM Enamel Gloss

Third Coat: Same as second

Paint System Sp-L5: Latex, Semigloss Finish:

S-W:

First Coat: Touch-up primer if compatible or provide barrier coat.

Second Coat: Pro Industrial Zero VOC Semi-Gloss Acrylic, B66-650.

Third Coat: Same as second.

B-M:

First Coat: Touch-up primer if compatible or provide barrier coat.

Second Coat: HP3310 Acrylic DTM Enamel Semi-Gloss

Third Coat: Same as second.

Paint System Sp-L3: Latex, Eggshell Finish:

S-W:

First Coat: Touch-up primer if compatible or provide barrier coat.

Second Coat: Pro Industrial Zero VOC Satin Acrylic, B66-660 Series.

Third Coat: Same as second.

B-M:

First Coat: Touch-up primer if compatible or provide barrier coat.

Second Coat: HP3320 Acrylic DTM Enamel Satin

Third Coat: Same as second

Paint System Sp-L1: Latex, Flat Finish:

S-W:

First Coat: Touch-up primer if compatible or provide barrier coat.

Second Coat: ProMar 200 Zero VOC Flat, B30-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: Touch-up primer if compatible or provide barrier coat.

Second Coat: Ultra Spec 500 Interior Zero VOC Latex Flat T535.

Third Coat: Same as second.

Paint System Sp-D1: Water-Based Dry-Fall, Flat Finish:

S-W:

First Coat: Touch-up primer if compatible or provide barrier coat.

Second Coat: Waterborne Acrylic Dry Fall, B42W1.

Third Coat: Same as second.

B-M:

First Coat: Touch-up primer if compatible or provide barrier coat.

Second Coat: Benjamin Moore 395 Latex Dryfall Flat

Third Coat: Same as second.

Paint System Sp-X5: Waterborne Epoxy, Semigloss Finish:

S-W:

First Coat: Touch-up primer if compatible or provide barrier coat.

Second Coat: Pre-Catalyzed Water Based Epoxy Semi-Gloss, K46-150 Series.

Third Coat: Same as second.

B-M:

First Coat: Touch-up primer if compatible or provide barrier coat.

Second Coat: HP3410 Pre-Catalyzed Waterborne Epoxy

Third Coat: Same as second

* + - * 1. Steel, Galvanized (Sg) Substrates

Paint System Sg-L6: Latex, Gloss Finish:

S-W:

First Coat: Pro Industrial Pro-Cryl Universal Primer, B66-310.

Second Coat: Pro Industrial Zero VOC Gloss Acrylic, B66-600 Series.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: HP3300 Acrylic DTM Enamel Gloss

Third Coat: Same as second

Paint System Sg-L5: Latex, Semigloss Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Pro Industrial Zero VOC Semi-Gloss Acrylic, B66-650.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: HP3310 Acrylic DTM Enamel Semi-Gloss

Third Coat: Same as second

Paint System Sg-L3: Latex, Eggshell Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Pro Industrial Zero VOC Satin Acrylic, B66-660 Series.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: HP3320 Acrylic DTM Enamel Satin

Third Coat: Same as second

Paint System Sg-L1: Latex, Flat Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: ProMar 200 Zero VOC Flat, B30-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: UltraSpec 500 T535 Flat Acrylic

Third Coat: Same as second

Paint System Sg-D1: Water-Based Dry-Fall, Flat Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Waterborne Acrylic Dry Fall, B42W1.

Third Coat: Same as second.

B-M:

First Coat: 046 fresh start® high-hiding all purpose primer

Second Coat: Benjamin Moore Latex Dry Fall Flat 395

Third Coat: Same as second

Paint System Sg-X5: Waterborne Epoxy, Semigloss Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Pre-Catalyzed Water Based Epoxy Semi-Gloss, K46-150 Series.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: HP3410 Pre-Catalyzed Acrylic Epoxy Semi-Gloss

Third Coat: Same as second

* + - * 1. Cast Iron (Ci) Substrates

Paint System Ci-L6: Latex, Gloss Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Pro Industrial Zero VOC Gloss Acrylic, B66-600 Series.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: HP3300 Acrylic DTM Enamel Gloss

Paint System Ci-L5: Latex, Semigloss Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Pro Industrial Zero VOC Semi-Gloss Acrylic, B66-650.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: HP3310 Acrylic DTM Enamel Semigloss

Paint System Ci-L3: Latex, Eggshell Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Pro Industrial Zero VOC Satin Acrylic, B66-660 Series.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: HP3320 Acrylic DTM Enamel Satin

Paint System Ci-L1: Latex, Flat Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: ProMar 200 Zero VOC Flat, B30-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: Ultra Spec Zero VOC Flat T535

Third Coat: Same as second.

Paint System Ci-D1: Water-Based Dry-Fall, Flat Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Waterborne Acrylic Dry Fall, B42W1.

Third Coat: Same as second.

B-M:

First Coat: 046 FRESH START® HIGH-HIDING ALL PURPOSE PRIMER

Second Coat: Benjamin Moore Latex Dry Fall Flat 395

Third Coat: Same as second

Paint System Ci-X5: Waterborne Epoxy, Semigloss Finish:

S-W:

First Coat: Pro Industrial Pro-CrylUniversal Primer, B66-310.

Second Coat: Pre-Catalyzed Water Based Epoxy Semi-Gloss, K46-150 Series.

Third Coat: Same as second.

B-M:

First Coat: HP1100 Acrylic Metal Primer

Second Coat: HP3410 Pre-Catalyzed Waterborne Epoxy

* + - * 1. Architectural Woodwork (Ww) Substrates

Paint System Ww-L5: Latex, Semigloss Finish:

S-W:

First Coat: Premium Wall & Wood Latex Primer, B28W8111.

Second Coat: ProMar 200 Zero VOC Semi-Gloss Acrylic, B31-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: 507 FAST SANDING PRIMER

Second Coat: 1204 Door, Trim & Cabinet Enamel Semi-Gloss

Third Coat: Same as second.

Or

First Coat: 507 FAST SANDING PRIMER

Second Coat: ADVANCE® VOC Interior Semi-Gloss 793

Third Coat: Same as second

Paint System Ww-L3: Latex, Eggshell Finish:

S-W:

First Coat: Premium Wall & Wood Latex Primer, B28W8111.

Second Coat: ProMar 200 Zero VOC Eg-Shel B20-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: 507 FAST SANDING PRIMER

Second Coat: Ultra Spec 500 Zero VOC Eggshell T538

Third Coat: Same as second.

Paint System Ww-X5: Waterborne Epoxy, Semigloss Finish:

S-W:

First Coat: Premium Wall & Wood Latex Primer, B28W8111.

Second Coat: Pre-Catalyzed Water Based Epoxy Semi-Gloss, K46-150 Series.

Third Coat: Same as second.

B-M:

First Coat: 507 FAST SANDING PRIMER

Second Coat: HP3410 Pre-Catalyzed Waterborne Epoxy Semigloss

Paint System Ww-V4: Stain and Varnish, Satin Finish:

S-W:

First Coat: Minwax 250 VOC Stain.

Second Coat: WoodClassics Waterborne Polyurethane Varnish, A68 Series.

Third Coat: Same as second.

B-M:

First Coat: Old Masters Wiping Stain

Second Coat: 423 Benjamin Moore Acrylic Polyurethane Low Luster

* + - * 1. Gypsum Board (Gb) Substrates

Paint System Gb-L5: Latex, Semigloss Finish:

S-W:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: ProMar 200 Zero VOC Interior Latex Semi-Gloss, B31-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec 500 Zero VOC Interior Zero VOC Latex Primer

N534

Second Coat: Ultra Spec 500 Zero VOC Interior Semi-Gloss T546

Third Coat: Same as second.

Paint System Gb-L3: Latex, Eggshell Finish:

S-W:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: ProMar 200 Zero VOC Interior Latex Eg-Shel, B20-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec 500 Zero VOC Interior Latex Primer N534

Second Coat: Ultra Spec 500 Zero VOC Latex Eggshell T538

Third Coat: Same as second.

Paint System Gb-L1: Latex, Flat Finish:

S-W:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: ProMar 200 Zero VOC Interior Latex Flat, B30-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec 500 Zero VOC Interior Zero VOC Latex

Primer N534.

Second Coat: Ultra Spec 500 Zero VOC Interior Latex Flat T535.

Third Coat: Same as second.

Paint System Gb-X5: Waterborne Epoxy System, Semigloss Finish:

S-W:

First Coat: ProMar 200 Zero VOC Interior Latex Primer,

B28W2600.

Second Coat: Pre-Catalyzed Water Based Epoxy Semi-Gloss, K46-150 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec 500 Zero VOC Interior Latex Primer N534

Second Coat: HP3410 Pre-Catalyzed Waterborne Epoxy Semigloss

Third Coat: Same as second.

* + - * 1. Gypsum Board, Moisture-Resistant (Gm) Substrates:

Paint System Gm-L5: Latex, Semigloss Finish:

S-W:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: Pro Industrial Pre-Catalyzed Waterbased Epoxy

Semi-Gloss, K46-150 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec 500 Zero VOC Interior Latex Primer N534

Second Coat: HP3410 Pre-Catalyzed Waterborne Epoxy Semigloss

Third Coat: Same as second

Paint System Gm-L3: Latex, Eggshell Finish:

S-W:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: Pro Industrial Pre-Catalyzed Waterbased Epoxy

Eg-Shel, K45-150 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec 500 Zero VOC Interior Latex Primer N534

Second Coat: HP3420 Pre-Catalyzed Waterborne Epoxy Satin

Third Coat: Same as second.

Paint System Gm-X5: Waterborne Epoxy, Semigloss Finish:

S-W:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: Pre-Catalyzed Water Based Epoxy Semi-Gloss, K46-150 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec 500 Zero VOC Interior Latex Primer N534

Second Coat: HP3410 Pre-Catalyzed Waterborne Epoxy Semigloss

Third Coat: Same as second.

* + - * 1. Pipe Insulation (Pi) Cotton/Canvas Substrates

Paint System Pi-L5: Latex, Semigloss Finish:

S-W:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: ProMar 200 Zero VOC Interior Latex Semi-Gloss, B31-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec 500 Zero VOC Interior Latex Primer N534

Second Coat: Ultra Spec 500 Interior Zero VOC Semi-Gloss T546

Third Coat: Same as second.

Paint System Pi-L3: Latex, Eggshell Finish:

S-W:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: ProMar 200 Zero VOC Interior Latex Eg-Shel, B20-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec Zero VOC Primer 534

Second Coat: Ultra Spec 500 Zero VOC Interior Low Sheen Eggshell T538

Third Coat: Same as second.

Paint System Pi-L1: Latex, Flat Finish:

S-W:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: ProMar 200 Zero VOC Interior Latex Flat, B30-2600 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec 500 Zero VOC Interior Latex Primer N534

Second Coat: Ultra Spec 500 Zero VOC Zero VOC Interior Flat T535

Third Coat: Same as second.

Paint System Pi-X5: Waterborne Epoxy, Semigloss Finish:

S-W:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: Pre-Catalyzed Water Based Epoxy Semi-Gloss, K46-150 Series.

Third Coat: Same as second.

B-M:

First Coat: Ultra Spec 500 Zero VOC Interior Latex Primer N534

Second Coat: HP3410 Pre-Catalyzed Waterborne Epoxy Semigloss

Third Coat: Same as second.

* + - * 1. Plaster (Pl) Substrates:

Paint System Pl-L5: Latex, Semigloss Finish:

SW:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: ProMar 200 Zero VOC Interior Latex Semi-Gloss, B31-2600 Series.

Third Coat: Same as second coat.

B-M:

First Coat: Ultra Spec Zero VOC Primer N534

Second Coat: Ultra Spec 500 Zero VOC Interior Semi-Gloss T546

Third Coat: Same as second.

Paint System Pl-L3, Eggshell Finish:

SW:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: ProMar 200 Zero VOC Interior Latex Eg-Shel, B20-2600 Series.

Third Coat: Same as second coat.

B-M:

First Coat: Ultra Spec Zero VOC Primer N534

Second Coat: Ultra Spec 500 Zero VOC Interior Low Sheen EggShell T538

Third Coat: Same as second.

Paint System Pl-L1: Latex, Flat Finish:

SW:

First Coat: ProMar 200 Zero VOC Interior Latex Primer, B28W2600.

Second Coat: ProMar 200 Zero VOC Interior Latex Flat, B30-2600 Series.

Third Coat: Same as second coat.

B-M:

First Coat: Ultra Spec Zero VOC Primer N534

Second Coat: Ultra Spec 500 Zero VOC Interior Flat T535

Third Coat: Same as second.

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| Issue | Date | Revision Description | Revised By |
|  | **20190301** | **Original Issuance** |  |
| Rev. 1 | 20250519 | Revised approved manufacturers and paint schedules. | Esther Hendricks |
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