

SECTION 09 91 00

PAINTING

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Surface preparation.
 - 2. Field application of paints, stains, varnishes, and other coatings.
- B. Related Sections:
 - 1. [_____].

1.02 DEFINITIONS

- A. Paint: Coating systems materials, including primers, emulsions, enamels, stains, sealers, fillers, and other applied materials whether used as prime, intermediate, or finish coats.
- B. Factory Finish: Factory-applied painting system consisting of primer and finish coats equal in quality to gloss enamel system specified for ferrous metal under work of this Section.
- C. Conform to ASTM D16 for interpretation of additional terms used in this Section.

1.03 REFERENCE STANDARDS

- A. ASTM International:
 - 1. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications.
 - 2. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials.
- B. Green Seal:
 - 1. GC-03 - Anti-Corrosive Paints.
 - 2. GS-11 - Product Specific Environmental Requirements.
- C. NACE International;
 - 1. NACE (IMP) - Industrial Maintenance Painting.
- D. The Society for Protective Coatings
 - 1. SSPC (PM1) - Good Painting Practice: SSPC Painting Manual, Vol. 1.
- E. South Coast Air Quality Management District:
 - 1. SCAQMD Rule #1168 - Adhesive and Sealant Applications.
- F. U.S. Environmental Protection Agency:
 - 1. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. [Coordination:]

- B. [Preinstallation Meeting:]
- C. [Sequencing:]
- D. Scheduling:
 - 1. Schedule installing products specified in this Section with other construction to minimize possibility of damage and soiling during remainder of construction period.

1.05 [SUSTAINABLE CHARACTERISTICS]

- A. Section 01 35 63 - Sustainability Project Requirements: Requirements for sustainable design compliance.
- B. Materials and Resources Characteristics:
 - 1. [Recycled Content Materials: Furnish materials with maximum available recycled content including:
SPEC NOTE *List materials specified in this section required to have recycled content.*
 - a. [Paint shall have no VOC.]
 - b. [Paint shall have no fungicides added]
 - 2. [Regional Materials: Furnish materials extracted, processed, and manufactured within 500 miles of Project site.]
SPEC NOTE *List materials specified in this section required to be regional materials.*
 - a. [_____.]
- C. Indoor Environmental Quality Characteristics:
 - 1. [Interior] Flat and Non-Flat Paints: Maximum volatile organic compound content in accordance with GS-11. Do not exceed the VOC content limited established in Green Seal Standard GS-11, Paints, First Edition, May 20, 1993.
 - a. Flats: 50 g/L.
 - a. Non-Flats: 150 g/L.
 - 2. [Interior] Anti-Corrosive Paints: Maximum volatile organic compound content in accordance with GC-03. Do not exceed the VOC content limit of 250 g/L established in Green Seal Standard GC-03, Anti-Corrosive Paints, January 7, 1997.
 - 3. [Interior] Clear Wood Finishes, Floor Coatings, Stains, Primers, and Shellacs: Maximum volatile organic compound content in accordance with SCAQMD Rule 1113.
 - 2. [Interior] Concrete, Wood, Bamboo, and Cork Floor Finishes: Maximum volatile organic compound content in accordance with SCAQMD Rule 1113, Coatings, rules in effect on January 1, 2004.
 - a. Clear wood finishes: Varnish 350g/L; lacquer 550 g/L.
 - b. Floor coatings; 100 g/L.
 - c. Sealers: Waterproofing sealers 250 g/l; sanding sealers 275 g/L; all other sealers 200 g/L.
 - d. Shellac: Clear 730 g/L; pigmented 550 g/L.
 - e. Stains: 250 g/L.
 - 3. Clear wood finishes, floor coatings, stains, sealers, and shellacs applied to interior elements: Do not exceed the VOC content limits established in SCAQMD Rule 1113, Architectural

1.06 SUBMITTALS

- A. See Section 01 33 00 - Submittal Procedures, for submittal procedures.
- B. Product Data: Provide data on all finishing products, including VOC content.
- C. Samples: Submit two paper chip samples, 8.5 by 11 inch in size illustrating range of colors

and textures available for each surface finishing product scheduled.

- D. Manufacturer's Instructions: Indicate special surface preparation procedures.
- E. Maintenance Data: Submit data on cleaning, touch-up, and repair of painted and coated surfaces.

1.07 [SUSTAINABLE DESIGN SUBMITTALS]

- A. Section 01 81 13 - Sustainable Design Requirements: Requirements for sustainable design submittals.
- B. Manufacturer's Certificate: Certify products meet or exceed specified sustainable design requirements.
 - 1. Materials Resources Certificates:
 - a. Certify source and origin for reuse content products.
 - b. Certify source for regional materials and distance from Project site.
 - 2. Indoor Air Quality Certificates:
 - a. Certify volatile organic compound content for each interior paint and coating.
- C. Product Cost Data: Submit cost of products to verify compliance with Project sustainable design requirements. Exclude cost of labor and equipment to install products.
 - 1. Provide cost data for the following products:
 - a. Products with recycled material content.
 - b. Regional products.

1.08 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
- B. Applicator Qualifications: Company specializing in performing the work of this section with minimum 3 years documented experience.
- C. Employ coats and undercoats for all types of finishes in strict accord with the recommendations of the paint manufacturer used unless otherwise specified in this Section. In case of conflict, comply with the most stringent.
- D. Regulatory Requirements: Conform to applicable code for flame and smoke rating requirements for products and finishes.
- E. Job Mockup: If directed by University's Representative, apply on actual wall surfaces where designated, mockup of each or any color selected for final approval.
 - 1. On at least 100 square feet of surface as directed, apply paint system until required color, sheen, and texture are obtained.
 - 2. Simulate finished lighting conditions for review of mockup.

1.09 DELIVERY, STORAGE, AND PROTECTION

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

- C. Paint Materials: Store at minimum ambient temperature of 45 degrees Fahrenheit and a maximum of 90 degrees Fahrenheit, in ventilated area, and as required by manufacturer's instructions.
- D. Store paint materials not in actual use in tightly covered containers.
 - 1. Maintain containers used in storage of paint in a clean condition, free of foreign materials and residue.
 - 2. Keep storage area neat and orderly.
- E. Remove all empty containers, waste, and rags from premises daily.

1.10 SITE CONDITIONS

- A. Environmental Requirements:
 - 1. Do not apply materials when surface and ambient temperatures are outside the temperature ranges recommended by the paint product manufacturer.
 - 2. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges recommended by the paint product manufacturer.
 - 3. Minimum Application Temperatures for Latex Paints: 45 degrees Fahrenheit for interiors; 50 degrees Fahrenheit for exterior; unless recommended otherwise by manufacturer's instructions.
- B. Provide lighting level of 80 foot candles measured mid-height at substrate surface.
- C. Provide sufficient ventilation for application operations.

PART 2 PRODUCTS

2.01 PAINTS AND COATINGS - GENERAL

- A. Paints and Coatings: Ready mixed, except field-catalyzed coatings. Prepare pigments:
 - 1. To a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating.
 - 2. For good flow and brushing properties.
 - 3. Capable of drying or curing free of streaks or sags.
- B. Volatile Organic Compound (VOC) Content:
 - 1. Provide coatings that comply with the most stringent requirements specified in the following:
 - a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
 - 2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.
- C. Chemical Content: The following compounds are prohibited:
 - 1. Aromatic Compounds: In excess of 1.0 percent by weight of total aromatic compounds (hydrocarbon compounds containing one or more benzene rings).
 - 2. Acrolein, acrylonitrile, antimony, benzene, butyl benzyl phthalate, cadmium, di (2-ethylhexyl) phthalate, di-n-butyl phthalate, di-n-octyl phthalate, 1,2-dichlorobenzene, diethyl phthalate, dimethyl phthalate, ethylbenzene, formaldehyde, hexavalent chromium, isophorone, lead, mercury, methyl ethyl ketone, methyl isobutyl ketone, methylene chloride, naphthalene, toluene (methylbenzene), 1,1,1-trichloroethane, vinyl chloride.

2.02 PAINT MATERIALS

A. Manufacturers: Provide the below listed products of the following manufacturers.

1. Benjamin Moore and Co. (BM).
2. Dunn-Edwards (DE).
3. Frazee Paint Co., A Comex Group Company (FP).
4. Kelly Moore (KM).
5. or equal.

B. Interior Materials:

<u>Type</u>	<u>BM</u>	<u>DE</u>	<u>FP</u>	<u>KM</u>
Low Odor /Zero VOC Enamel Primer	372	ENSO00	066	1505
Low Odor /Zero VOC Enamel Eggshell	374	ENSO30	029	1510
Low Odor /Zero VOC Enamel Semi-Gloss	376	ENSO50	032	1520
Aluminum Primer (Acrylic)	M04	W173	561	1722
Ferrous Metal Primer (Acrylic)	M04	W715	561	1725
Flat Black Latex Enamel	-	W202	209	-
Galvanized Metal Primer (Acrylic)	M04	W715	561	1725
Industrial Maintenance Gloss Enamel (100 Percent Acrylic)	309	W960	143	1680

C. Exterior Materials:

<u>Type</u>	<u>BM</u>	<u>DE</u>	<u>FP</u>	<u>KM</u>
100 Percent Acrylic Flat Finish	05	W701V	203	1235
100 Percent Acrylic Semi-Gloss Finish	96	W901V	124	1250
Aluminum Primer (Acrylic)	M04	W715	561	1725
Acrylic Wood Primer	23	W708	168	225
Masonry Primer (Epoxy Acrylic)	068	W709	266	247
Ferrous Metal Primer (Acrylic)	M04	W715	561	1725
Galvanized Metal Primer (Acrylic)	M04	W715	561	1725

D. Primers and Subsequent Coats: Provide primers and other undercoat paints produced by the same manufacturer of finish coats or recommended in writing by manufacturer of finish coat. Where primer is shop applied to metal, subsequent costs may be products of another

manufacture provided the coatings are mutually compatible. Review other sections in which primers are provided to assure compatibility of the total systems for various substrates.

- E. Colors: Provide colors, and degree of luster as indicated. Color tint primers, sealers, and undercoats to correspond with finish color. Vary color of successive coats sufficiently to distinguish between coats. [Refer the Schedule at end of this Section.]

2.03 ASSOCIATED MATERIALS

- A. Wood Filler: Paste filler recommended by manufacturer for wood type used, in color according to color of stain finish scheduled or selected.
- B. General Purpose Filler: Standard spackling compound or gypsum wallboard joint compound or latex patching compound; for patching plaster, gypsum wallboard, and wood surfaces to receive opaque paint finishes.
- C. Thinner: Use only thinners by paint manufacturer, and use only within recommended limits.
- D. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified; commercial quality.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine receiving areas before application and verify that:
 - 1. Receiving surfaces meet the requirements of product manufacturer.
 - 2. Shop applied primer is compatible with subsequent cover materials.
 - 3. Receiving surfaces are thoroughly dry, clean and in proper condition to assure adhesion and proper functioning of coating specified.
- B. Test shop-applied primer for compatibility with subsequent cover materials.
- C. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 - 1. Plaster and Gypsum Board: 12 percent.
 - 2. Masonry, Concrete, and Concrete Masonry Units: 12 percent.
 - 3. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
 - 4. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.
- D. Report in writing to University's Representative with copy to the manufacturer, any deficiencies that could impair work.
- E. Application of paint systems materials shall constitute acceptance of the surface, and shall obligate the Contractor for such repair as necessary any unsatisfactory finish resulting.

3.02 PREPARATION

- A. Follow manufacturer's instructions carefully to apply materials only to surfaces that are acceptable.
- B. Surface Appurtenances: Prior to surface preparation and application operations, completely mask, remove, or otherwise adequately protect hardware, accessories, machined surfaces,

plates, lighting fixtures, and similar items in contact with coated surfaces but not scheduled to receive coating.

- C. Protect the adjacent and adjoining work and materials from damage from this work. If necessary, mask by suitable covering or other methods, during application of the coating system.
- D. Before applying coating system, thoroughly clean all surfaces involved to remove grease, oil and dirt or other materials effecting bond. Schedule cleaning so that dust and other contaminants from the cleaning process do not fall on wet, newly coated surfaces.
- E. Surfaces: Correct defects and clean surfaces which affect work of this section. Remove or repair existing coatings that exhibit surface defects.

3.03 SURFACE PREPARATION

- A. Impervious Surfaces: Remove mildew by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- B. Concrete Surfaces to be Painted: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with a solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.
- C. Gypsum Board Surfaces to be Painted: Remove all foreign matter. Fill minor defects with filler compound. Spot prime defects after repair.
- D. Plaster Surfaces to be Painted: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
- E. Insulated Coverings to be Painted: Remove dirt, grease, and oil from canvas and cotton.
- F. Aluminum Surfaces to be Painted: Remove surface contamination by steam or high pressure water. Remove oxidation with acid etch and solvent washing. Apply etching primer immediately following cleaning.
- G. Copper Surfaces to be Painted: Remove contamination by steam, high pressure water, or solvent washing. Apply vinyl etch primer immediately following cleaning.
- H. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
- I. Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.
- J. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
- K. Interior Wood Items to Receive Transparent Finish: Wipe off dust and grit prior to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after

sealer has dried; sand lightly between coats. Prime concealed surfaces with gloss varnish reduced 25 percent with thinner.

- L. Marks: Seal with shellac those which may bleed through surface finishes.

3.04 APPLICATION

- A. Apply products in accordance with manufacturer's instructions.
- B. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.
- C. Do not reduce any material unless so directed by University's Representative or unless recommended by materials manufacturer
- D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- E. Apply each coat to uniform appearance. Apply each coat of paint slightly darker than preceding coat unless otherwise approved.
- F. Do not paint over code-required labels, equipment identification, performance rating, name, or nomenclature plates.
- G. Sand wood surfaces lightly between coats to achieve required finish.
- H. Paint to sharp, true lines and edges; when color change occurs in same plane, paint to chalk lines or tape.
- I. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- J. Prime Coats:
 - 1. Prime substrates the same day they are prepared.
 - 2. Apply prime coat to material that is required to be painted or finished, and that has not been prime coated by others.
 - 3. Recoat primed and sealed substrates where there is evidence of suction spots or unsealed areas in first coat, to assure a finish coat with no burn-through or other defects due to insufficient sealing.
 - 4. Roller apply acrylic wall sealer to gypsum board.
 - 5. Shop-Primed Metal Items: Field-applied prime coats may be confined to abraded areas requiring touch-up.
- K. Semi-Gloss or Eggshell Enamel Finishes on Walls and Ceilings: Apply paint and promptly roll to produce definite orange peel texture.
- L. Transparent Wood Finishes:
 - 1. Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface
 - 2. Sand surfaces between coats.
 - 3. After primer coat is dry, fill cracks, nail holes, and minor defects with putty stained to match finish.
- M. Minimum Coating Thickness: Apply materials at not less than manufacturer's recommended spreading rate, to establish a total dry film thickness.

- N. Coverage:
 - 1. Notwithstanding achievement of complete coverage with less than number of coats specified, apply specified number of coats.
 - 2. Where application of number of coats specified fails to achieve complete coverage, apply additional coats as necessary.
- O. Should any coat be deemed unsatisfactory, it shall be sanded and additional coats applied as necessary until satisfactory finish is achieved.
- P. Reinstall hardware, accessories, machined surfaces, plates, lighting fixtures, and similar items in contact with coated surfaces that were removed prior to painting.

3.05 FINISHING MECHANICAL AND ELECTRICAL EQUIPMENT

- A. Refer to Mechanical and Electrical Sections for schedule of color coding of equipment, duct work, piping, and conduit.
- B. Paint shop-primed equipment, where indicated.
- C. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- D. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.06 FIELD QUALITY CONTROL

- A. See Section 01 45 19 - Inspection of Work, for general requirements for field inspection.
- B. University will provide field inspection.

3.07 CLEANING

- A. Clean Up: During progress of work, remove from site discarded paints materials, rubbish, cans and rags at end of each workday.
- B. Upon completion of work, remove surplus materials and rubbish, and clean off spilled or splattered paint resulting from this Work.
- C. Washing Finished Surfaces:
 - 1. Wash in accordance with manufacturer's directions only where required to clean work.
 - 2. Assure washing does not produce surface different from unwashed surface. Difference will be considered unsatisfactory work.

3.08 SCHEDULE - SURFACES TO BE FINISHED

- A. Do Not Paint or Finish the Following Items:
 - 1. Items fully factory-finished unless specifically noted.
 - 2. Fire rating labels, equipment serial number and capacity labels.
- B. Mechanical and Electrical: Use paint systems defined for the substrates to be finished.
 - 1. Paint all insulated and exposed pipes occurring in finished areas to match background surfaces, unless otherwise indicated.
 - 2. Paint shop-primed items occurring in finished areas.
 - 3. Paint interior surfaces of air ducts and convector and baseboard heating cabinets that are

- 4. visible through grilles and louvers with one coat of flat black paint to visible surfaces.
 - 4. Paint dampers exposed behind louvers, grilles, and convector and baseboard cabinets to match face panels.
 - 5. Factory paint electric panels and all access doors to match adjacent wall or ceiling color. Paint will not crack or peel at hinges or around door when door is opened due to poor workmanship.
- C. Upon completion of work, remove surplus materials and rubbish, and clean off spilled or splattered paint resulting from this Work.
- D. Washing Finished Surfaces:
- 1. Wash in accordance with manufacturer's directions only where required to clean work.
 - 2. Assure washing does not produce surface different from unwashed surface. Difference will be considered unsatisfactory work.

3.09 PROTECTION

- A. Protect work, whether to be painted or not, against damage by painting and finishing work.
- B. Protect finished installation from damage until the project is accepted by University.
- C. Provide "Wet Paint" signs as required to protect newly painted finish.
- D. Remove temporary protective wrappings for protection of work, after completion of painting operations.
- E. Clean, repair and recoat damaged surfaces in accordance with manufacturer's printed instructions, as acceptable to University's Representative, and at no increase in Contract Sum.

3.10 PAINTING SYSTEM SCHEDULES

- A. Coating systems are specified in the following schedules for exterior and interior systems.
- B. Only major areas are scheduled, but all miscellaneous items and areas within the room or space shall be painted with a suitable system.
- C. The number of coats specified is the minimum number acceptable. If full coverage is not obtained with the specified number of coats, apply additional coats as necessary to produce the required finish, at no increase in Contract Sum.
- D. Interior Systems:
 - 1. Gypsum Wallboard - Typical, Low Odor / Zero VOC Eggshell Enamel:
 - a. First Coat: Low Odor / Zero VOC Enamel Primer.
 - b. Second Coat: Low Odor / Zero VOC Eggshell Enamel.
 - c. Third Coat: Low Odor / Zero VOC Eggshell Enamel.
 - 2. Gypsum Wallboard - Walls and Ceilings in Toilet, Bath, Janitor and Shower Rooms, Low Odor / Low VOC Semi-Gloss Enamel:
 - a. First Coat: Low Odor / Zero VOC Enamel Primer.
 - b. Second Coat: Low Odor / Zero VOC Semi-Gloss Enamel.
 - c. Third Coat: Low Odor / Zero VOC Semi-Gloss Enamel.
 - 3. [Plaster] [and] [Concrete] - Typical, Low Odor / Zero VOC Eggshell Enamel:
 - a. First Coat: Low Odor / Zero VOC Enamel Primer.
 - b. Second Coat: Low Odor / Zero VOC Eggshell Enamel.
 - c. Third Coat: Low Odor / Zero VOC Eggshell Enamel.

4. Ferrous Metal, Shop-Primed – Typical including hollow metal frames and doors, Zero Odor /Low VOC Semi-Gloss Enamel:
 - a. Touch up with Ferrous Metal Primer (Acrylic).
 - b. Second Coat: Low Odor / Zero VOC Semi-Gloss Enamel.
 - c. Third Coat: Low Odor / Zero VOC Semi-Gloss Enamel.
 5. Ferrous Metal - Mechanical and Electrical Piping, Supports, Machinery and Similar Items, Industrial Acrylic Enamel:
 - a. First Coat: Ferrous Metal Primer (Acrylic).
 - b. Second Coat: Industrial Maintenance Gloss Enamel (100 Percent Acrylic).
 - c. Third Coat: Industrial Maintenance Gloss Enamel ((100 Percent Acrylic).
 6. Galvanized Metal - Typical, Low Odor / Zero VOC Semi-Gloss Enamel:
 - a. Pretreat Galvanized Metal with Jasco Prep N Prime Metal Pretreatment.
 - b. First Coat: Galvanized Metal Primer (Acrylic).
 - c. Second Coat: Low Odor / Zero VOC Semi-Gloss Enamel.
 - d. Third Coat: Low Odor / Zero VOC Semi-Gloss Enamel.
 7. Galvanized Metal - Visible Duct and Plenums Behind Diffuser, Grilles, and Registers, Flat Black Latex Enamel:
 - a. Pretreat Galvanized Metal with Jasco Prep N Prime Metal Pretreatment.
 - b. First Coat: Galvanized Metal Primer (Acrylic).
 - c. Second Coat: Flat Black Latex Enamel.
 8. Wood - Telephone and Electrical Panel Plywood Back Boards, Low Odor / Zero VOC Semi-Gloss Enamel:
 - a. First Coat: Low Odor / Zero VOC Enamel Primer.
 - b. Second Coat: Low Odor / Zero VOC Semi-Gloss Enamel (White color unless otherwise indicated).
 - c. Third Coat: Low Odor / Zero VOC Semi-Gloss Enamel (White color unless otherwise indicated).
 9. Aluminum and Copper - Mechanical and Electrical Items, Acrylic Semi-Gloss Enamel:
 - a. First Coat: Aluminum Primer (Acrylic).
 - b. Second Coat: Low Odor / Zero VOC Semi-Gloss Enamel.
 - c. Third Coat: Low Odor / Zero VOC Semi-Gloss Enamel.
 10. Mechanical Insulation - Typical, Varied Finish:
 - a. First Coat: Low Odor /Low VOC Enamel Primer.
 - b. Second Coat: Match adjacent finish.
 11. Existing Walls, Painted - Typical, Low Odor /Low VOC Eggshell Enamel:
 - a. First Coat: Low Odor / Zero VOC Enamel Primer.
 - b. Second Coat: Low Odor / Zero VOC Eggshell Enamel.
 12. Existing Walls, Painted - Typical Low Odor /Low VOC Semi-Gloss Enamel:
 - a. First Coat: Low Odor / Zero VOC Enamel Primer.
 - b. Second Coat: Low Odor / Zero VOC Semi-Gloss Enamel.
- E. Exterior Systems:
1. Concrete – Typical, Acrylic Masonry Paint:
 - a. First Coat: Masonry Primer (Epoxy Acrylic).
 - b. Second Coat: 100 Percent Acrylic Flat Finish.
 2. Portland Cement Stucco - Typical, Acrylic Masonry Paint:
 - a. First Coat: 100 Percent Acrylic Flat Finish.
 - b. Second Coat: 100 Percent Acrylic Flat Finish.
 3. Portland Cement Stucco, Existing - Typical, Acrylic Masonry Paint:
 - a. First Coat: Surface Conditioner (Acrylic).
 - b. Second Coat: 100 Percent Acrylic Flat Finish.
 4. Wood - Typical, Acrylic Semi-Gloss Trim Enamel:
 - a. First Coat: Acrylic Wood Primer.
 - b. Second Coat: 100 Percent Acrylic Semi-Gloss Finish.
 - c. Third Coat: 100 Percent Acrylic Semi-Gloss Finish.
 5. Ferrous Metal, Shop-Primed or Prepainted - [Typical,] Acrylic Semi-Gloss Trim Enamel:

- a. First Coat: Ferrous Metal Primer (Acrylic), color to match finish coat.
- b. Second Coat: 100 Percent Acrylic Semi-Gloss Finish.
- 6. Galvanized Metal - Typical, Acrylic Semi-Gloss Trim Enamel:
 - a. Pretreat Galvanized Metal with Jasco Prep N Prime Metal Pretreatment.
 - b. First Coat: Galvanized Metal Primer (Acrylic).
 - c. Second Coat: 100 Percent Acrylic Semi-Gloss Finish.
 - d. Third Coat: Acrylic Semi-Gloss Finish.
- 7. Existing Concrete – Typical, Acrylic Masonry Paint:
 - a. First Coat: Surface Conditioner (Acrylic).
 - b. Second Coat: 100 Percent Acrylic Flat Finish.

3.11 SCHEDULE - COLORS

- A. P-1: [_____].
- B. P-2: [_____].

END OF SECTION