

**SECTION 09 90 00**

**PAINTING**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. Section Includes: Fluid applied paints and coatings. Upon completion of Work, all visible interior and exterior surfaces, within the Contract limits including factory primed or factory finished roof mounted mechanical and electrical equipment, shall be painted unless scheduled "Not to Be Painted" in this Section.
1. Each paint system includes:
    - a. Surface preparation, including touch-up of shop applied primers, if needed.
    - b. Prime coat application, where scheduled as part of finish system.
    - c. Finish coat application, where scheduled apply two or more finish coats.
  2. Paint semi-concealed areas (e.g. inside of light troughs and valances, behind grilles, and projecting edges above and below sight lines, behind wall-mounted items).
  3. Repair and Painting of existing surfaces.
  4. Surface preparation and repair of surfaces treated for lead-based paint abatement work.
- B. Surfaces Not To Be Painted:
1. Prefinished wall, ceiling, and floor coverings.
  2. Items with factory-applied final finish except roof-mounted equipment as defined above.
  3. Concealed ducts, pipes, and conduit.
  4. Glass, plastic laminate, ceramic tile, anodized aluminum.
  5. Surfaces of steel items that will be embedded in concrete.
  6. Surfaces specifically scheduled or noted on the Drawings not to be painted.
  7. Fire-Rating labels on doors and frames.
  8. Performance Rating labels on equipment.
  9. Nameplates, cable or device identification labels, code required signage, etc.
- C. Related Sections:
1. Section 09 01 90, Repair and Painting Existing Previously Painted Surfaces

**1.02 REFERENCES**

- A. ASTM International - American Society for Testing and Materials:
1. ASTM D 4442 - Direct Moisture Content Measurement of Wood and Wood-Base Materials.
  2. ASTM D 4444 - Use and Calibration of Hand-Held Moisture Meters
  3. ASTM D 6386 - Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Painting
- B. AQMD - Air Quality Management District
1. AQMD Regulations – Local Regulations

- C. SCAQMD – South Coast Air Quality Management District
  - 1. SCAQMD-1113 - Rule 1113, Architectural Coatings

- D. SSPC - Steel Structures Painting Council.

#### 1.03 SUBMITTALS

- A. Product Data: For each paint system product and accessory item
- B. Samples: Of each specified finish system color, texture, and sheen; samples shall be minimum 8-1/2 by 11 inches in size.
  - 1. Prepare transparent wood finish samples on type and quality of wood specified.
- C. Certified Copies of moisture test results
- D. Information Submittals
  - 1. Statement of Qualifications from manufacturer
  - 2. Statement of Qualifications from installer
  - 3. Manufacturer's application instructions.
- E. Closeout Submittals
  - 1. Material Safety Data Sheets.
- F. Submit Qualifications data for manufacturer and applicator required under Quality Assurance.

#### 1.04 MAINTENANCE MATERIALS SUBMITTALS

- A. For each color, type, and gloss of paint used in the work provide, as Extra Materials, a quantity equal to approximately 10 percent of the quantity required for its installation rounded to the nearest gallon, or five gallons, whichever is less.
  - 1. Extra Materials shall be from same production run as installed materials.
  - 2. Label each container with locations and dates of related installations; do not obscure manufacturer's label.
  - 3. Deliver Extra Materials to Site as directed by Owner after providing 24 hours notice of delivery.

#### 1.05 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Company with minimum 10-years' experience manufacturing quality paint and finish products for commercial projects similar in scale and complexity to those required for this Project.
- B. Applicator Qualifications: Company with minimum 5-years' experience painting and finishing commercial projects similar in scale and complexity to those required for this Project.

#### 1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver products to site in their original, sealed, undamaged containers with labels intact and legible.

1. Labels shall include manufacturer's name, type of paint, brand name, brand code, color designation, recommended surface preparation, typical coverage, drying times, cleanup procedures, and instructions for mixing and reducing, if permitted.
- B. Store paint materials ambient temperatures between 45- and 90-degrees F, in well ventilated area unless permitted otherwise by manufacturer's instructions.

#### 1.07 FIELD CONDITIONS

- A. Supply continuous ventilation and heating facilities to maintain surface and ambient temperatures above 45 degrees F for 24 hours before, during and 48 hours after application of finishes, unless permitted otherwise by manufacturer's instructions.
- B. Do not apply exterior coatings during rain, or when relative humidity is above 50 percent, unless permitted otherwise by manufacturer's instructions.
- C. Minimum Application Temperatures for Latex Paints: 45 degrees F for interiors; 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.
- D. Minimum Application Temperature for Varnish and transparent Finishes: 65 degrees F for interior or exterior, unless permitted otherwise by manufacturer's instructions.
- E. Maintain lighting level sufficient to conduct painting operations.
- F. Provide District 72 hour notice prior to the start of any painting operations.

#### 1.08 GUARANTEE

- A. Guarantee the painting Work against peeling, fading, cracking, blistering or crazing for a period of two years from the Date of Certified Completion for painting of new surfaces and existing surfaces.

### PART 2 - PRODUCTS

#### 2.01 PAINTS AND COATINGS

- A. Acceptable Manufacturer. Products of following manufacturer form basis for design and quality intended.
  1. Vista Paint Corporation, Fullerton, CA
  2. Or approved equal.
    - a. Any deviation from Vista Paint shall be noted prior to application.

#### 2.02 MATERIALS

- A. Coatings: Ready mixed, except field-catalyzed coatings. Process pigments to soft paste consistency, capable of being readily and uniformly dispersed to homogeneous coating.

- B. Colors and Glosses: As selected by Architect from manufacturer's full range of available colors. Architect will select color and hue to be used in various types of paint specified and will be sole judge of acceptability of various glosses obtained from materials proposed to be used in Work. During actual painting, Architect may make minor modifications in tone and shade to adjust for actual surface and lighting conditions encountered.
- C. Undercoats and Thinners. Provide undercoat paint produced by same manufacturer as finish coat. Use only thinners recommended by paint manufacturer and use only to recommended limits. Use undercoat, finish coat and thinner material as parts of a unified system of paint finish.
- D. Coatings: Good flow and brushing properties; capable of drying or curing free of streaks or sags.
- E. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified of commercial quality.

#### 2.03 APPLICATION EQUIPMENT

- A. For application of the approved paint, use only such equipment as is recommended by the manufacturer.
- B. Compatibility: Prior to actual use of application equipment, use all means necessary to verify that the proposed equipment is actually compatible with the material to be applied and that the integrity of the finish will not be jeopardized by use of the proposed application equipment.

#### 2.04 FINISHES

- A. Refer to schedule at end of Section for surface finish. Notwithstanding product numbers listed in schedule, Contractor shall conform to most recent product numbers as published by the manufacturer.

### PART 3 - EXECUTION

#### 3.01 INSPECTION

- A. Verify that surfaces are ready to receive Work as instructed by the product manufacturer.
- B. Examine surfaces scheduled to be finished prior to commencement of Work. Report any condition that may potentially affect proper application.
- C. Measure moisture content of new surfaces using an electronic moisture meter. Apply finishes only when moisture content of surfaces are below the following maximums. Conduct moisture measurements in presence of the project inspector when inspector is assigned to the project, document readings and submit to Architect under Part 1.
  - 1. Plaster and Gypsum Wallboard: 12 percent.
  - 2. Masonry, Concrete, and Concrete Unit Masonry: 12 Percent.

3. Interior Located Wood: 15 percent, measured in accordance with ASTM D 4442 and ASTM D 4444.
4. Exterior Located Wood: 19 percent, measured in accordance with ASTM D 4442 and ASTM D 4444.

D. Beginning installation means acceptance of existing surfaces and conditions.

### 3.02 MATERIALS PREPARATION

- A. Mix and prepare painting material in accordance with manufacturer's recommendations.
- B. Store materials not in actual use in tightly covered containers.
- C. Maintain containers used in storage, mixing and application of paint in a clean condition, free from foreign materials and residue.
- D. Stir all materials before application to produce a mixture of uniform density and as required during the application of materials. Do not stir into the material any film that may form on the surface. Remove the film and strain the material before using.

### 3.03 SURFACE PREPARATION

- A. Remove electrical plates, hardware, light fixture trim and fittings prior to preparing surfaces for finishing.
- B. Correct minor defects and clean surfaces which affect Work of this section.
- C. Shellac and seal marks that may bleed through surface finishes.
- D. Impervious Surfaces: Remove mildew by scrubbing with solution of tri-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- E. Insulated Coverings: Remove dirt, grease and oil from canvas and cotton.
- F. Gypsum Board Surfaces: Fill minor defects, joints and nail head depressions with spackling compounds. Prime in accordance with primer manufacturer's recommendations.
- G. Concrete and Unit Masonry Surfaces Scheduled to Receive Paint Finish: 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 or corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.
  1. Concrete Floors: etch existing concrete bare floors with 5% Muriatic Acid solution where scheduled to be painted.
- H. Plaster Surfaces: Fill hairline cracks, small holes and imperfections with patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.

- I. Surface Preparation for Exterior Metal (Except Galvanized): Preparation in accordance with SSPC-6 Commercial Blast Cleaning.
- J. Galvanized Surfaces:
  - 1. Prepare galvanized steel and nonferrous metal surfaces in accordance with ASTM D 6386-Surface Preparation of Galvanized Surfaces and manufacturer's instructions.
  - 2. Ensure surfaces are dry.
  - 3. Interior Exposure (Dry/Benign): Remove visible oil, grease, dirt, dust, protective mill coatings, and other soluble contaminants in accordance with SSPC-SP 1 or manufacturer's instructions as specified for coating system. Hand or Power tool clean to remove all insoluble contaminants
  - 4. Interior and exterior Exposure (moderate to severe): Remove visible oil, grease, dirt, dust, protective mill coatings, and other soluble contaminants in accordance with SSPC-SP 1 or manufacturer's instructions as specified for coating system. Follow initial cleaning with one of the following Methods:
    - a. SURFACE PREPARATION METHOD A (Preferred): Thoroughly roughen the entire surface to be coated using compressed air brush off blast cleaning with a fine abrasive to achieve a uniform anchor profile of 1-2 mils. Reference ASTM D 6386-99 (2005) Section 5.4.1.
    - b. SURFACE PREPARATION METHOD B (Alternate method when Method A is not feasible): Chemically treat with one of the following products to etch the galvanized surface to be coated: Henkel Galvaprep 5 or Clean & Etch by Great Lakes Laboratory. Reference ASTM D 6386-99 (2005) Section 5.4.2.
- K. Uncoated Steel and Iron Surfaces: Remove grease, scale, dirt and rust. Where heavy coatings of scale are evident, remove by 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 after repairs with Tnemec Series L69 Hi Build Epoxoline II or Carboline 890 VOC or approved in accordance with Division 01, General Requirements for Substitutions.
- L. Shop Primed Steel Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Spot prime bare steel surfaces to match existing primer.
- M. Wood Scheduled to Receive Paint Finish: Remove dust, grit and foreign matter. Seal knots, pitch streaks and sappy sections. Fill nail holes with tinted exterior caulking compound after prime coat has been applied.
  - 1. Exterior wood: apply wood preservative coats prior to paint system.
- N. Wood Doors and Cabinet Work scheduled for field-applied transparent or solid stain finish:
  - 1. Sand surfaces thoroughly with a 5/0, 180 grit sandpaper.
  - 2. Apply coatings as specified in the schedule to all surfaces, sides and edges. Avoid streaking or uneven application 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 or screw holes, or other surfaces imperfections.

3. Stains as selected by Architect from manufacturer's full range of colors.

- O. Provide satin finish for final coats.
- P. Wood Doors Scheduled for Painting: Seal top and bottom edges with primer. Leave labels intact and readable.
- Q. Glue-Laminated Beams: Prior to finishing, wash surfaces with solvent. Remove grease and dirt.
- R. Exterior Wood-Clear coats: apply exterior grade varnish.
- S. Door and Window Frames, Side Lites, jambs and headers: clean and light sand smooth.
- T. Vinyl Wall Covering: Remove grease, dirt, oil, wax, and other foreign matter from surfaces by washing with warm solution of household detergent followed by wet sponge, and allowing to dry thoroughly.
- U. Previously Coated Surfaces: As required in Section 09 01 90. Painting over existing painted surfaces interior and exterior, ascertain that new paint system is compatible with existing gloss and high-gloss oil based paint system to insure proper adhesion. Sand lightly existing paint and prime walls as scheduled.

#### 3.04 PROTECTION

- A. Protect elements surrounding the Work of this Section from damage or disfiguration.
- B. Repair damage to other surfaces caused by Work of this Section.
- C. Furnish drop cloths, shields and protective methods to prevent spray or droppings from disfiguring other surfaces.
- D. Remove empty paint containers from site.

#### 3.05 APPLICATION

- A. Apply products in accordance with manufacturer's instructions.
- B. Do not apply finishes to surfaces that are not dry.
- C. Apply each coat to uniform finish. Number of coats specified is a minimum. Additional coats shall be applied at no extra cost, if coatings show evidence of uneven application, uneven pigmentation, brush strokes or otherwise unsatisfactory distribution of material.
- D. Sand lightly between coats to achieve required finish.
- E. Allow applied coat to dry before next coat is applied.

- F. Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.
- G. Prime back surfaces of interior and exterior woodwork with primer paint.
- H. Prime back surfaces of interior woodwork scheduled to receive stain or varnish finish with gloss varnish reduced 25 percent with mineral spirits.
- I. Seal Tops, bottoms and cutouts for hardware and accessories of wood doors and plastic-laminate covered doors.
- J. Paint Frames: Split paint door frames to match color of walls on each side of opening unless directed otherwise by Architect.
- K. Paint finish shall continue through behind all wall-mounted items (e.g. markerboards, chalk and tack boards).

3.06 FINISHING MECHANICAL AND ELECTRICAL EQUIPMENT

- A. Refer to Section Divisions 22, 23 and 26 for color coding and identification banding requirements of equipment, ductwork, piping and conduit.
  - 1. Unless otherwise indicated, conform to the following color coding system:

PIPING	COLOR	MANUFACTURER
Chilled Water	Vista Gray	
Condenser Water	Canvas Tan	
Domestic Hot Water	Admiral Blue	
Domestic Cold Water	Edison Blue	-
Clinical Air	Bright Yellow	
Plant Air	Clear Lacquer	-
Vacuum	Shasta White	-
Oxygen	John Deere Green	Coast to Coast 555-2221-2744-02 Rustoleum H-3 -matches 594 green Pittsburgh 9-15
Nitrous Oxide	OSHA Blue	OSHA'S Website
Cold Soft Water	OSHA Violet	OSHA'S Website
Steam	Caterpillar Yellow	Rustoleum H-4
Hot Water	Ferguson Gray	Rustoleum Navy Gray - matches H-7
Soil Waste	Loam Brown	-
Nitrogen	OSHA Black	OSHA'S Website
Fire	OSHA Red	OSHA'S Website
Fuel Gas	OSHA Orange	OSHA'S Website
Deionized Water	Light Blue	

- 2. Verify appropriate specific color designations with paint manufacturer.
- 3. Conform to Owner's special requirements for color coding. Match existing coding system where required.



- B. Paint shop primed equipment.
- C. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- D. Paint mechanical wall louvers, grilles to match adjacent wall surfaces at accent paint finish.
- E. Prime and paint insulated and exposed pipes, electrical equipment including panelboards and switch gear, conduit, boxes, insulated and exposed ducts, hangers, metal louvers, brackets, collars and supports, when exposed to view in finished occupied spaces. Except items that are pre-finished.
- F. Replace identification markings on mechanical or electrical equipment when painted accidentally.
- G. Paint interior surfaces of air ducts that are visible through grilles and louvers with one coat of flat black paint, to limit of sight line. Paint dampers exposed behind louvers and grilles to match face panels.
- H. Paint both sides and edges of plywood backboards for electrical and telephone equipment before installing equipment.
- I. Color code equipment, piping, conduit and exposed ductwork in accordance with requirements indicated. Color band and identify with flow arrows names and numbering, using stencils or other approved systems.
- J. Replace electrical plates, hardware, light fixture trim and fittings removed prior to finishing.

### 3.07 CLEANING

- A. As Work proceeds, promptly remove paint where spilled, splashed, or spattered.
- B. During progress of Work maintain premises free of unnecessary accumulation of tools, equipment, surplus materials and debris.
- C. Collect cotton waste, cloths, and material that may constitute a fire hazard, place in closed metal containers and remove daily from site.

### 3.08 FINISH SYSTEM SCHEDULE - EXTERIOR EXPOSURE (VISTA PAINT)

- A. Wood - Flat - Acrylic
  - 1. Primer, 1 Coat 4200 Terminator II
  - 2. Finish, 2 Coats 2000 Duratone
- B. Wood - Semi-Gloss – Acrylic
  - 1. Primer, 1 Coat 4200 Terminator II
  - 2. Finish, 2 Coats 8400 Carefree Semi-Gloss
- C. Wood - Gloss – Acrylic

1. Primer, 1 Coat 4200 Terminator II
  2. Tie Coat, 1 Coat 8500 Carefree Gloss
  3. Finish, 1 Coat 8500 Carefree Gloss
- D. Wood - Stain –Semi- Transparent – Alkyd/Acrylic
1. Stain, 2 Coats Benjamin Moore N638 Arborcoat  
Distributed by Vista Paint
- E. Wood - Stain - Solid – Acrylic
1. Stain, 2 Coats 3000 Acribond
- F. Wood - Clear – Varnish Water-Base, Semi-Gloss finish
1. Finish, 3 Coats – Defthane Water Base Polyurethane
- G. Wood - Waterproofing Sealer - Clear (2 mils min. DFT)
1. Sealer, 1 Coat Olympic Waterguard 55260
- H. Wood - Preservative - Clear finish under paint system scheduled
1. Sealer, 2 Coats Monochem Aquaseal II for Wood
  2. Then apply Wood Semi-Gloss Acrylic paint system.
- I. Concrete - Flat - Acrylic
1. Primer, 1 Coat 4600 Uniprime II
  2. Finish, 2 Coats 3000 Acribond
- J. Concrete - Low Sheen - Acrylic
1. Primer, 1 Coat 4600 Uniprime II
  2. Finish, 2 Coats 8300 Carefree Eggshell
- K. Concrete - Elastomeric
1. Primer, 1 Coat 4600 Uniprime II
  2. Finish, 2 Coats 500 Solotex
- L. Concrete Block - Flat - Acrylic
1. Primer, 1 Coat 018 Acrylic Block Filler
  2. Finish, 2 Coats 3000 Acribond
- M. Concrete Block - Low Sheen - Acrylic
1. Primer, 1 Coat 018 Acrylic Block Filler
  2. Finish, 2 Coats 8300 Carefree Eggshell
- N. Concrete Block – Semi-Gloss - Acrylic
1. Primer, 1 Coat 018 Acrylic Block Filler
  2. Finish, 2 Coats 8400 Carefree Semi-Gloss
- O. Concrete Block – Gloss - Acrylic
1. Primer, 1 Coat 018 Acrylic Block Filler
  2. Finish, 2 Coats 8500 Carefree Gloss
- P. Concrete Block - Elastomeric

1. Primer, 1 Coat 018 Acrylic Block Filler
  2. Finish, 2 Coats 500 Solotex
- Q. Cement Plaster - Flat - Acrylic
1. Primer, 1 Coat 4600 Uniprime II
  2. Finish, 2 Coats 2000 Duratone
- R. Cement Plaster - Low Sheen - Acrylic
1. Primer, 1 Coat 4600 Uniprime II
  2. Finish, 2 Coats 8300 Carefree Eggshell
- S. Cement Plaster - Elastomeric
1. Primer, 1 Coat 4600 Uniprime II
  2. Finish, 2 Coats 500 Solotex
- T. Fiber Cement Siding – Low Sheen - Acrylic
1. Primer, 1 Coat 4600 Uniprime II
  2. Finish, 2 Coats 8300 Carefree Eggshell
- U. Ferrous - Flat – Acrylic over alkyd emulsion primer
1. Primer, 1 Coat 9600 Protec Metal Primer
  2. Tie Coat, 1 Coat 9600 Protec Metal Primer
  3. Finish, 1 Coat 2000 Duratone
- V. Ferrous - Semi Gloss – Acrylic over alkyd emulsion primer
1. Primer, 1 Coat 9600 Protec Metal Primer
  2. Tie Coat, 1 Coats 9600 Protec Metal Primer
  3. Finish, 1 Coat 8400 Carefree Semi-Gloss
- W. Ferrous - Gloss – VOC Compliant
1. Primer, 1 Coat 9600 Protec Metal Primer
  2. Finish, 2 Coats 9900 Protec Gloss
- X. Ferrous - Factory Primed. If shop primer is compatible with finish materials, clean and touch-up prime coat in lieu of full primer coat then apply paint finish as specified.
- Y. Galvanized Steel and Aluminum - Flat - Acrylic
1. Surface Prep Monochem 9400 Metal Etch
  2. Primer, 1 Coat 4800 Metal Pro Primer
  3. Finish, 2 Coats 2000 Duratone
- Z. Galvanized Steel and Aluminum - Gloss – VOC Compliant
1. Surface Prep Monochem 9400 Metal Etch
  2. Primer, 1 Coat 4800 Metal Pro Primer
  3. Finish, 2 Coats 9900 Protec Gloss
- AA. Galvanized Steel and Aluminum – Semi-Gloss - Acrylic
1. Surface Prep Monochem 9400 Metal Etch
  2. Primer, 1 Coat 4800 Metal Pro Primer
  3. Finish, 2 Coats 8400 Carefree Semi-Gloss

- BB. Perforated Acoustical Tile – Eggshell – Acrylic
  - 1. Primer, 1 Coat: 1100 Hi Build PVA Sealer
  - 2. Tie Coat, 1 Coat: 8300 Carefree Eggshell
  - 3. Finish, 2 Coats: 8300 Carefree Eggshell

- CC. Glass - semi-gloss
  - 1. Primer, 1 Coat Zinsser Bulls Eye 123
  - 2. Finish, 2 Coats 8400 Carefree Semi-Gloss

3.09 FINISH SYSTEM SCHEDULE - INTERIOR SURFACES (VISTA PAINT)

- A. Wood – Opaque - Flat - Acrylic
  - 1. Primer, 1 Coat 4200 Terminator II
  - 2. Finish, 2 Coats 8100 Carefree Flat
- B. Wood - Opaque - Semi Gloss - Acrylic
  - 1. Primer, 1 Coat 4200 Terminator II
  - 2. Finish, 2 Coats 8400 Carefree Semi-Gloss
- C. Wood - Opaque - Eggshell - Acrylic
  - 1. Primer, 1 Coat 4200 Terminator II
  - 2. Finish, 2 Coats 8300 Carefree Eggshell
- D. Wood - Opaque - Gloss - Acrylic
  - 1. Primer, 1 Coat 4200 Terminator II
  - 2. Finish, 2 Coats 8500 Carefree Gloss
- E. Wood – Transparent with Stain - Non-Yellowing - Flat Lacquer
  - 1. Stain, 1 Coat VWS Series Wiping Stain
  - 2. Sealer, 1 Coat NAS1420 Lacquer Sanding Sealer
  - 3. Lacquer, 2 Coats NAF1421 Lacquer Flat
- F. Wood - Transparent with Stain - Non-Yellowing - Semi Gloss Lacquer
  - 1. Stain, 1 Coat VWS Series Wiping Stain
  - 2. Sealer, 1 Coat NAS1420 Lacquer Sanding Sealer
  - 3. Lacquer, 2 Coats NAF1426 Lacquer Semi-Gloss
- G. Wood - Transparent with Stain - Non-Yellowing - Gloss Lacquer
  - 1. 1 Coat, Stain VWS Series Wiping Stain
  - 2. 1 Coat, Sealer NAS 1420 Lacquer Sanding Sealer
  - 3. 2 Coats, Lacquer NAC1429 Lacquer Gloss
- H. Wood - Stain - High Solids – Low Sheen – Lacquer
  - 1. Stain, 1 Coat VWS Series Wiping Stain
  - 2. Sealer, 1 Coat NAS1820 Lacquer Sanding Sealer
  - 3. Lacquer, 2 Coats NAS1822 Lacquer Satin
- I. Wood - Stain - High Solids - Semi Gloss - Lacquer
  - 1. Stain, 1 Coat VWS Series Wiping Stain
  - 2. Sealer, 1 Coat NAS1820 Lacquer Sanding Sealer
  - 3. Lacquer, 2 Coats NAF1826 Lacquer Semi-Gloss

- J. Wood - Stain High Solid - Gloss - Lacquer
  - 1. Stain, 1 Coat VWS Series Wiping Stain
  - 2. Sealer, 1 Coat NAS1820 Lacquer Sanding Sealer
  - 3. Lacquer, 2 Coats NAS1829 Lacquer Gloss
- K. Concrete, Plaster, Masonry - Flat - Acrylic
  - 1. Primer, 1 Coat 4600 Uniprime II
  - 2. Finish, 1 Coat 8100 Carefree Flat
- L. Concrete, Plaster, Masonry - Flat – Acrylic – Zero or Low VOC
  - 1. Primer, 1 Coat 7001 Acriglo Primer
  - 2. Finish, 2 Coats 7100 Acriglo Flat
- M. Concrete, Plaster, Masonry - Eggshell - Acrylic
  - 1. Primer, 1 Coat 4600 Uniprime II
  - 2. Finish, 2 Coats 8300 Carefree Eggshell
- N. Concrete, Plaster, Masonry - Eggshell – Acrylic – Zero or Low VOC
  - 1. Primer, 1 Coat 7001 Acriglo Primer
  - 2. 2 Coat, Finish 7500 Acriglo Eggshell
- O. Concrete, Plaster, Masonry – Semi-Gloss - Acrylic
  - 1. Primer, 1 Coat 4600 Uniprime II
  - 2. Finish, 2 Coats 8400 Carefree Semi-Gloss
- P. Concrete, Plaster, Masonry – Semi-Gloss - Acrylic – Zero or Low VOC
  - 1. Primer, 1 Coat 7001 Acriglo Primer
  - 2. Finish, 2 Coats 7000 Acriglo Semi-Gloss
- Q. Gypsum Board - Flat – Acrylic (Skim Coat required for Level 5 finish)
  - 1. Primer, 1 Coat 1100 Hi-Build PVA Sealer
  - 2. Finish, 2 Coats 8100 Carefree Flat
- R. Gypsum Board - Flat – Acrylic – Zero VOC (Skim Coat required for Level 5 finish)
  - 1. Primer, 1 Coat 7001 Acriglo Primer
  - 2. 2 Coats. Finish 7100 Acriglo Flat
- S. Gypsum Board - Eggshell – Acrylic (Skim Coat required for Level 5 finish)
  - 1. Primer, 1 Coat 1100 Hi-Build PVA Sealer
  - 2. Finish, 2 Coats 8300 Carefree Eggshell
- T. Gypsum Board - Eggshell – Acrylic – Zero VOC (Skim Coat required for Level 5 finish)
  - 1. Primer, 1 Coat 7001 Acriglo Primer
  - 2. 2 Coat, Finish 7500 Acriglo Eggshell
- U. Gypsum Board - Semi Gloss – Acrylic (Skim Coat required for Level 5 finish)
  - 1. Primer, 1 Coat 1100 Hi-Build PVA Sealer
  - 2. Finish, 2 Coats 8400 Carefree Semi-Gloss
- V. Gypsum Board – Semi Gloss – Acrylic – Zero VOC (Skim Coat required for Level 5 finish)

1. Primer, 1 Coat 7001 Acriglo Primer
  2. Finish, 2 Coats 7000 Acriglo Semi-Gloss
- W. Gypsum Board - Gloss – Acrylic (Skim Coat required for Level 5 finish)
1. Primer, 1 Coat 1100 Hi-Build PVA Sealer
  2. Finish, 2 Coats 8500 Carefree Gloss
- X. Ferrous - Flat – Acrylic over Alkyd Emulsion Primer
1. Primer, 1 Coat 9600 Protec Metal Primer
  2. Tie Coat, 1 Coat 9600 Protec Metal Primer
  3. Finish, 1 Coat 8100 Carefree Flat
- Y. Ferrous - Semi Gloss – Acrylic over Alkyd Emulsion Primer
1. Primer, 1 Coat 9600 Protec Metal Primer
  2. Tie Coat, 1 Coat 9600 Protec Metal Primer
  3. Finish, 1 Coat 8400 Carefree Semi-Gloss
- Z. Ferrous - Gloss – Acrylic over Alkyd Emulsion Primer
1. Primer, 1 Coat 9600 Protec Metal Primer
  2. Tie Coat, 1 Coat/ 9600 Protec Metal Primer
  3. Finish, 1 Coat 8500 Carefree Gloss
- AA. Ferrous - Factory Primed. If shop primer is compatible with scheduled finish, clean and touch-up prime coat then apply Finish as specified.
- BB. Galvanized and Aluminum - Flat - Acrylic
1. Surface Prep Monochem 9400 Metal Etch
  2. Primer, 1 Coat 4800 Metal Pro Primer
  3. Finish, 2 Coats 8100 Carefree Flat
- CC. Galvanized and Aluminum - Semi Gloss - Acrylic
1. Surface Prep Monochem 9400 Metal Etch
  2. Primer, 2 Coats 4800 Metal Pro Primer
  3. Finish, 2 Coats 8400 Carefree Semi-Gloss
- DD. Galvanized and Aluminum - Gloss - Acrylic
1. Surface Prep Monochem 9400 Metal Etch
  2. Primer, 1 Coat 4800 Metal Pro Primer
  3. Finish, 2 Coats 8500 Carefree Gloss
- EE. Perforated Acoustical Tile – Eggshell – Acrylic
1. Primer, 1 Coat: 1100 Hi-Build PVA Sealer
  2. Finish, 2 Coats: 8300 Carefree Eggshell
- FF. Glass - semi-gloss
1. Primer, 1 Coat Zinsser Bulls Eye 123
  2. Finish, 2 Coats 8400 Carefree Semi-Gloss

3.10 SPECIAL COATING SYSTEMS

- A. Exterior Concrete, Masonry, Wood Floors - Low Sheen (acrylic epoxy)
  - 1. Finish, 2 Coats
    - a. Vista, 400 Acripoxy [with anti-slip aggregate]
- B. Interior Concrete Floors - Low Sheen, Acrylic-Epoxy
  - 1. Finish, 2 Coats
    - a. Vista, 400 Acripoxy
- C. Interior Concrete Floors - Gloss, Acrylic-Epoxy
  - 1. Finish, 2 Coats
    - a. Vista, Sierra Performance S40
- D. Reflective Paint - Acrylic
  - 1. Acceptable Manufacturers
    - a. DayGlo Color Corp., Cudahy, CA and Cleveland, OH
    - b. Emedco, Buffalo, NY
    - c. Or equal.
  - 2. Acceptable Products
    - a. Blue: DayGlo Nightglo, NGX
    - b. Orange: DayGlo Nightglo, NG25
    - c. Yellow Green: DayGlo Nightglo, NG15
- E. Magnetic Primer
  - 1. Rust-Oleum Specialty Magnetic Latex Primer
- F. Plaster, Drywall, Wood, Concrete - Vapor Barrier Primer/Sealer (if used, substitute for scheduled primer, then apply Finish specified.)
  - 1. Vista Paint/Zinsser B-I-N Shellac Base Vapor Barrier
- G. Plaster, Concrete, Masonry [Gypsum Board] –Gloss – Water-Based Epoxy
  - 1. Primer, 1 Coat PPG Perma-Crete Primer  
Distributed by Vista Paint
  - 2. Finish, 2 Coats PPG Pitt-Glaze WB Gloss  
Distributed by Vista Paint
- H. Plaster, Concrete, masonry – Semi-Gloss – Epoxy
  - 1. Primer, 1 Coat Amerlock 2 Epoxy  
4-6 mils dft.
  - 2. Finish, 1 Coats Amerlock 2 Epoxy  
4-6 mils dft.  
Distributed by Vista Paint
- I. Gypsum Board – Semi Gloss – Water-Based Epoxy
  - 1. Primer, 1 Coat PPG Speedhide 6-2 Primer  
Distributed by Vista Paint
  - 2. Finish, 2 Coats PPG Pitt-Glaze WB Semi-Gloss  
Distributed by Vista Paint
- J. Steel, Galvanized Metal, Concrete,– Semi-Gloss Epoxy Mastic Low VOC

1. Primer, 1 Coat Amerlock 2 Epoxy  
4-6 Mils dft.
  2. Finish, 1 Coat Amerlock 2 Epoxy  
4-6 Mils dft.
- K. Signs, numbers, graphics, and lettering: Obtain the services of a professional sign painter for the application of painted signs, numbers, and graphics. Unless otherwise indicated, characters shall be 4" high, 3/4" wide stroke, black.
- L. Special Coatings: Exterior; metal handrails, railings, guardrails, roof sheet metal flashings, pipe bollards, road gates, ladders, ornamental metal fences and gates, galvanized structural steel, Structural Steel Architecturally Exposed Structural Steel (AESS), roof screens, trash and equipment enclosures exterior metal stairs, roof hatches scheduled items in Section 05 50 00, Metal Fabrications. Total 5.0 to 8.5 mil thickness, as recommended by the manufacturer:
1. Unprimed or shop primed - Ferrous - Gloss – Polyurethane
    - a. Primer, 1 Coat Amerlock 2 Epoxy  
4-6 Mils dft.
    - b. Finish, 2 Coats Amershield VOC Polyurethane Gloss  
5 Mils dft.  
Distributed by Vista Paint
  2. Galvanized or Aluminum - Gloss - Polyurethane
    - a. Primer, 1 Coat Amerlock 2 Epoxy
    - b. Finish, 2 Coats Amershield VOC Polyurethane Gloss  
Distributed by Vista Paint
  3. Galvanized - Gloss – Polyurethane –salt air, moisture environment
    - a. Primer, 1 Coat, Amerlock 2 Epoxy  
4-6 m
    - b. Finish, 2 Coats, Amershield VOC Polyurethane Gloss
    - c. Distributed by Vista Paint
- M. Unprimed Metal, Surface Preparation: SSPC-SP 3, Power Tool Cleaning
- N. Galvanized Metal, Surface Preparation: SSPC-SP1, Solvent Wash, and etch with one of the following.
1. Monochem 9400 Metal Etch
- O. Aluminum Surface Preparation: SSPC-SP1, Solvent Wash, then apply Vista 9600 Protec Metal Primer
- P. Architecturally Exposed Structural Steel (AESS), Surface Preparation: SSPC-SP 6 Commercial Blast Cleaning

**END OF SECTION**