# Part 1 GENERAL

* 1. **WORK INCLUDED**
		1. Surface preparation.
		2. Prime coat application.
		3. Finish coat application.
		4. Upon completion of work under this contract, all surfaces within the contract limits and within vision shall have a painters finish on the interior and exterior except excluded items defined herein. Include all roof mounted mechanical and electrical equipment factory primed or factory finished and in full view. Include all wall-mounted conduit and related attachmeents.
		5. Painting of existing and new surfaces.

# WORK NOT INCLUDED

* + 1. Surfaces Not to Be Painted:
			1. Pre-finished 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. Steel items embedded in concrete.
			6. Surfaces specifically scheduled or noted on the drawings not be painted.
			7. Fire-Rated Labels on Doors or Frames.

# REFERENCES

* + 1. AQMD- Air Quality Management District, Local Regulations.
		2. ASTM D4442 - Direct Moisture Content Measurement of Wood and Wood-Base Materials.
		3. ASTM D4444 - Use and Calibration of Hand-Held Moisture Meters.

# QUALITY ASSURANCE

* + 1. Product Manufacturer: A company specializing in manufacturing quality paints and finish products with ten years experience.
		2. Applicator: A company specializing in commercial painting and finishing with five years experience.

# REGULATORY REQUIREMENTS

* + 1. Conform to AQMD, Local Regulations, copies of document are available at Architect's office.
		2. Comply with applicable codes and regulations of governmental agencies having jurisdiction including those having jurisdiction over airborne emissions and industrial waste disposal. Where those requirements conflict with this Specification, comply with the more stringent provisions.

# SUBMITTALS

* + 1. Submit six (6) copies of a complete list of all materials proposed for use in the work, identified by manufacturer's name and product number, including manufacturer’s technical data, manufacturer’s application instructions and material safety data sheets for all finishing products. (Including all materials intended for use in the preparation and patching of surfaces to be finished as well as all primers, undercoats and finishing materials)
		2. Prior to beginning the work, submit for approval by the District, six (6) 8 1/2 by 11- in. samples of each color and finish. Identify each sample as to the manufacturer, product name and number, batch number, color name and number, finish type, and texture These samples shall be used for approval of the color match and as reference for inspections where required.

# SUBMITTALS

1. For natural stain finishes. Provide samples on the type and quality of wood to be used on the project. Samples should be 4 inches wide and of sufficient length that each step in the finishing process can be shown in 4 x 4-inch sections. (Include representations of any stain, sealer and finish used.)
2. Once approved, in writing by the District, these samples shall be the standard, against which the finished job is compared for color match and sheen. Color variations will not be accepted

# FIELD SAMPLES

1. Prepare sample wall areas at least 100 square feet each, for each type and color of finish.
2. Locate as approved by Architect.
3. When approved in writing, by the Architect and the District, these areas will represent the standard of work for the project.
4. Approved sample may remain as part of the Work.
5. Do not proceed with coating application until sample panel has been approved in writing.

# DELIVERY, STORAGE AND HANDLING

1. Deliver products to site in sealed and labeled containers.
2. Container labeling to include manufacturer's name, type of paint, brand name, brand code, coverage, surface preparation, drying time, cleanup, color designation and instructions for mixing and reducing.
3. Store paint materials at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in well ventilated area unless permitted otherwise by manufacturer's instructions.
4. Take precautionary measures to prevent fire hazards and spontaneous combustion.

# ENVIRONMENTAL REQUIREMENTS

1. Provide 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.
2. Do not apply exterior coatings during rain, or when relative humidity is above 50 percent, unless permitted otherwise by manufacturer's instructions.
3. Minimum Application Temperatures for Latex Paints: 45 degrees F for interiors, 50 degrees F for exterior, unless required otherwise by manufacturer's instructions.
4. Minimum Application Temperature for Varnish and transparent Finishes: 65 degrees F for interior or exterior, unless permitted otherwise by manufacturer's instructions.
5. Provide lighting level sufficient to conduct painting operations.

# 1.11 EXTRA STOCK

1. The contractor shall have delivered, to the District Paint Department, from original job stock, new unopened, clearly labeled containers, bearing the manufacturer's name and the batch number, of each type of any specialty colors or materials. Including but not limited to primers, stains and specialty finish products.
2. The minimum quantity delivered to the District shall be of 5% of the quantity actually applied, but not less than two (2) gallons each, in one (1) gallon containers. The Contractor must receive a copy of the District’s Extra Stock Form, signed by an authorized District representative, to receive credit for the performance of this extra stock requirement. (Where the materials used are those that form the basis for the District’s standards for quality, color, sheen and fade resistance, no extra stock is required.)
3. For all materials submitted, for use under Sections 3.08 and 3.09 other than those that form the basis, for the District’s standards for quality, color, sheen and fade resistance, the minimum quantities delivered to the District, (under Extra Stock) shall be twenty (20) gallons in one (1) gallon containers, of each substituted material and/or color. This applies to all materials listed in Sections 3.08 and 3.09.

# GUARANTEE

* + 1. 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 MANUFACTURERS**

1. Approved manufacturers:
	1. Exterior Paint Systems:
		1. Vista Paint, Fullerton, CA 714-680-3800
		2. Dunn Edwards Corporation, Los Angeles, CA./ Dunn Edwards Tint Center 2401, S. Vineyard, Ontario CA 909- 923-5994
	2. Interior Paint Systems:
		1. Vista Paint, Fullerton, CA 714-680-3800
		2. Dunn Edwards Corporation, Los Angeles, CA./ Dunn Edwards Tint Center 2401, S. Vineyard, Ontario CA 909- 923-5994
	3. Specialty Coatings – Specialty coating shall be as defined by the Architect and approved by the District for specific uses.
2. District Standards:
	1. The Products of Vista Paint Corporation form the basis of the design and quality for both interior and exterior paint applications and are the standard for kind, quality, function, color, sheen and fade resistance, for all exterior work.
	2. No exceptions or variations from the District’s Standards, for color, sheen and fade resistance, of any materials submitted for use will be excepted.
3. Or equal as approved in accordance with Section 01600 for Substitutions. Note: No exception or variation from the District’s approved colors will be accepted. All finish materials submitted for substitution shall match the product they are intended to replace in both color and sheen.

# MATERIALS

* + 1. Coatings: Shall be ready mixed, except field-catalyzed coatings. Process pigments to a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating.
		2. Colors and Glosses: The Architect shall select the colors to be used in the various types of paint specified, from the District's Schedule of Standardized Materials and Colors. The District will be the sole judge of acceptability of the various colors and glosses obtained from the materials proposed to be used in the Work.
		3. Undercoats and Thinners: Provide undercoat paint produced by the same manufacturer as the finish coat. Use only the thinners recommended by the paint manufacturer and use only to the recommended limits. Insofar as practicable, use undercoat, finish coat and thinner material as parts of a unified system of paint finish.
		4. Coatings: Good flow and brushing properties, capable of drying or curing free of streaks, sags or other defects.
		5. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified, shall be of commercial quality.

# 2.03 APPLICATION EQUIPMENT

1. For application of the approved paint, use only such equipment recommended by the manufacturer.
2. 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

1. 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.
2. All stucco and/or pigmented plaster shall be painted, as defined herein. The color of the stucco/plaster shall approximate the color of the finish to be applied. The Architect prior to application shall approve the stucco color coat and prime coat colors.

# Part 3 EXECUTION

* 1. **INSPECTION**
1. The Contractor shall examine the surfaces scheduled to be painted prior to the commencement of work and verify that surfaces are ready to receive work as instructed by the product manufacturer.
2. Any condition that may potentially affect proper application and/or appearance, of the finished job, shall be reported in writing to the Architect and the District. Work shall not begin until such defects have been corrected or a written authorization to proceed is issued by the District.
3. Measure moisture content of new surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
	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 D4442 and ASTM D444
4. Proceed with application only after the I.O.R. (Inspector of Record) has verified and recorded the moisture levels as specified.
5. Beginning of installation/application means acceptance, by the contractor, of existing surfaces.

# MATERIALS PREPARATION

1. Mix and prepare painting material in accordance with manufacturer's recommendations.
2. Store materials not in actual use in tightly covered containers.
3. Maintain containers used in storage, mixing and application of paint in a clean condition, free from foreign materials and residue.
4. 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.

# SURFACE PREPARATION

1. Clean surfaces and correct minor defects that may affect the work of this Section.
2. Shellac and seal marks which may bleed through surface finishes.
3. Insulated Coverings: Remove dirt, grease and oil from canvas and cotton.
4. Concrete surfaces shall be dry, clean and free from efflorescence, encrustations and other foreign matter. Any glazed surface shall be slightly roughened or etched. Curing compounds, bond breakers, release agents and other coatings shall be removed with a light sandblast or high pressure power wash.
5. Remove dirt, loose mortar, scale, powder and other foreign matter from concrete block surfaces, which are to be painted or treated with a clear sealer.
6. Galvanized metal shall be solvent cleaned with a compliant solvent and then retreated with an etching-type solution, where recommended by the finish manufacturer. Cleaned and retreated galvanized metal shall be primed the same day that cleaning has been performed.
7. Aluminum surfaces to be painted shall first be solvent washed.
8. Remove grease, rust, scale, dirt and dust from ferrous metal surfaces. Consult SSPC Guidelines for acceptable methods. Primer coat shall be applied not less than 30 minutes, nor more than 3 hours after preparation of the surface.
9. Sand and scrape shop primed metal to remove loose primer and rust. Then prime and finish as defined in Sections 3.08, 3.09 and 3.10. Shop prime is not acceptable as a primer for a finish paint system.
10. Remove dust, grit and foreign matter from wood surfaces. Sand surfaces and dust clean. Spot prime knots, pitch streaks and sappy sections with a stain blocking primer where surfaces are to be painted. Fill nail holes, cracks and other defects after priming and spot prime repairs after patching materials has fully cured.
11. Plaster surfaces shall be dry and free from efflorescence, encrustations and foreign matter. Fill cracks, holes and imperfections, smoothing repairs to match adjacent texture. Allow repairs to fully cure before priming.
12. All gypsum board surfaces must be completely dry and dust free before painting. Skim coated drywall must be sealed with an alkyd based sealer or a waterborne sealer recommended by the paint manufacturer for this surface.
13. Remove mildew by scrubbing with a solution of tri-sodium phosphate and bleach.

 Rinse with clean water and allow the surface to dry, prior to painting.

1. Preparation of other surfaces shall be performed following the specific recommendations of the coating manufacturer.
2. Wood Doors Scheduled for Painting: Seal top and bottom edges with primer. Leave labels intact and readable.

# PROTECTION

1. Protect elements surrounding the work of this Section from damage or disfiguration.
2. Repair damage to other surfaces caused by work of this Section.
3. Furnish drop cloths, shields and other protective methods to prevent spray or droppings from disfiguring other surfaces.
4. Remove empty paint containers and other materials debris, from site daily.

# APPLICATION

1. Contractor to provide 10% allowance for accent wall paint. Accent walls to be located in the field.
2. Apply products in accordance with manufacturer's instructions.
3. Do not apply finishes to surfaces that are not dry.
4. 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, roller marks or any otherwise unsatisfactory distribution of material.

1. For all paint systems that include two or more coats of material, each successive coat shall be of a different color and shall be inspected and approved in writing, prior to the application of the next coat.
2. Undercoats shall be lighter and brighter in tint than finish coat.
3. Sand lightly between coats to achieve required finish.
4. Allow applied coat to dry before next coat is applied.
5. Where primers and/or undercoats are required they shall be applied in a manner that ensures full, complete and uniform coverage.
6. Where stucco and/or wood sidings require a primer or undercoat it is recommended that the primer/undercoat be applied by roller or back rolled in a manner that will insure, full, complete and uniform coverage.
7. All exposed horizontal masonry, including but not limited to; concrete, concrete block, brick and stucco walls, shall be fully sealed with two coats of an approved elastomeric material prior to the application of any finish materials. This does not apply to walls where a coping is to be installed which will fully protect the surfaces from the weather.
8. Exterior metal sheeting (including sidings and exposed roof or walkway decking) should have a factory applied finish whenever possible. Where a factory applied finish is not possible or practical the preparation and finishing of the sheeting shall be as defined in Sections 3.03, 3.05, 3.08, 3.09 and the finish material manufacturer’s recommendations, whichever standard is most stringent.
9. All exterior structural steel components shall be prepared, primed and finished prior to the installation of sheeting or other construction materials that would limit or prevent a full and complete finish from being obtained.
10. Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.
11. Prime back surfaces of interior and exterior woodwork with primer paint.
12. Prime back surfaces of interior woodwork scheduled to receive stain or varnish finish with gloss varnish reduced 25 percent with mineral spirits.
13. Split paint doorframes to match trim color of walls on each side of opening.

# FINISHING MECHANICAL AND ELECTRICAL EQUIPMENT

1. Refer to Section Divisions 15 and 16 for color-coding and identification banding requirements of equipment, ductwork, piping and conduit.
2. Paint shop primed equipment.
3. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
4. Prime and paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, except where items are pre-finished.
5. Replace identification markings on mechanical or electrical equipment when painted accidentally.
6. 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.
7. Paint exposed conduit and electrical equipment occurring in finished areas.
8. Paint both sides and edges of plywood backboards for electrical and telephone equipment before installing equipment.
9. 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.
10. Replace electrical plates, hardware, light fixture trim and fittings removed prior to finishing.

# CLEANING

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

# SCHEDULE - EXTERIOR SURFACES

Vista Paint Products are the District’s standard for all exterior paints.

# Vista Paint Dunn Edwards

1. Cement, Plaster and Stucco – Semi Gloss – Acrylic
2. One Coat 4600 Uniprime II ESPR00 Eff-Stop Premium
3. Two Coats 8400 Carefree Semi-Gloss. EVSH50 EVERSHIELD

**Note**: Where conditions require that new cement, plaster or stucco be painted prior to the normal cure time, 4600 Uniprime II.

1. Cinder Block, Concrete Block – Semi Gloss – Acrylic
2. One Coat 040 Block Kote SBPR00 Smooth Blocfil
3. Two Coats 8400 Carefree Semi-Gloss EVSH50 EVERSHIELD

 **Note**: If efflorescence exists, clean and seal surface with 4600 Uniprime II prior to the application of Blocfil

1. Exposed Exterior Horizontal Masonry Surfaces
2. One Coat 4600 Uniprime II Elast-O-Kote Step 1
3. Two Coats 500 Solotex Elast-O-Kote Step 3

 **Note**: If the surface is to be painted, 4600 Uniprime II. (See 3.08 A & B)

1. Wood – Smooth and Rough Sawn – Gloss - Alkyd
2. One Coat 4200 Terminator II UGPROO Ultra-Grip
3. Two Coats 9900 Protec Gloss ASHL 70
4. Plywood, Synthetic Wood – (siding) - Semi Gloss – Acrylic
5. One Coat 4200 Terminator II UGPR00 Ultra-Grip
6. Two Coats 8400 Carefree Semi-Gloss EVSH50 EVERSHIELD
7. Ferrous Metal - Gloss - Alkyd
8. One Coat 9600 Protec Metal Prime BRPR00 Bloc-Rust Series
9. One Coat 9600 Protec Metal Prime BRPR00 Bloc-Rust Series
10. Two Coats 9900 Protec Gloss ASHL 70
11. Ferrous - Factory Primed: Sand and scrape shop primed metal to remove loose primer and rust. Then prime and finish as specified above.
12. Non-Ferrous Metal – Aluminum and Galvanized
13. Prepare with Jasco Prep N Prime SCME-01 Metal Clean & Etch
14. One Coat 9600 Protec Metal Prime GAPR00 Galv-Alum
15. Two Coats 9900 Protec Gloss ASHL 70

# SCHEDULE: INTERIOR SURFACES

Vista Paint Products are the District’s standard for all interior paints.

# Vista Paint

1. Concrete, Plaster, Masonry – Semi Gloss – Acrylic
2. One Coat 4600 Uniprime II
3. Two Coats 8400 Carefree Semi-Gloss

**Note**: If efflorescence exists, clean and seal surface with 4600 Uniprime II application of 040 Block Kote.

1. Concrete, Plaster, Masonry – Alkyd Gloss Enamel
2. One Coat 1100 Hi-Build PVA Sealer
3. Two Coats 9900 Protec Alkyd Emulsion Gloss Enamel
4. Wood - Semi Gloss – Acrylic
	1. One Coat 1100 Hi-Build PVA Sealer
	2. Two Coats 8400 Carefree Semi-Gloss
5. Wood - Alkyd Gloss
	1. One Coat 1100 Hi-Build PVA Sealer
	2. Two Coats 9900 Protec Alkyd Emulsion Gloss Enamel
6. Gypsum Board - Semi Gloss - Acrylic
7. One Coat 1100 Hi-Build PVA Sealer
8. Two Coats 8400 Carefree Semi-Gloss
9. Gypsum Board - Alkyd Gloss Enamel
10. One Coat 1100 Hi-Build PVA Sealer
11. Two Coats 9900 Protec Alkyd Emulsion Gloss Enamel
12. Ferrous – Acrylic/Alkyd Gloss Enamel
13. One Coat 4800 Metal Pro Primer
14. One Coat 9800 Protec Alkyd Emulsion Semi-Gloss Enamel
15. Two Coats 9900 Protec Alkyd Emulsion Gloss Enamel
16. Ferrous - Factory Prime: Sand and scrape shop-primed metal to remove loose primer and rust. Then prime and finish as specified above.
17. Galvanized and Aluminum – Acrylic/Alkyd Gloss Enamel
18. One Coat 4800 Metal Pro Primer
19. Two Coats 9900 Protec Alkyd Emulsion Gloss Enamel

# SPECIAL COATINGS

1. The finish material of any specialty coating system is to be a weather resistant two component polyurethane material produced by a leading manufacturer or other specialty product as specified by the Architect and approved in writing by the District for the intended use.
2. All Exterior Metal: Preparation in accordance with SSPC- 3.
3. Solvent wash and etch galvanized, solvent wash aluminum.

# MINIMUM GLOSS LEVELS

1. Exterior (minimum gloss levels)
2. Cement Plaster - semi gloss
3. Wood trim - gloss
4. Doors and metal - gloss

# INTERIOR (MINIMUM GLOSS LEVELS)

1. Walls - semi gloss
2. Doors, door jambs, trim and metal - gloss
3. Kitchen, Restrooms, Custodial Closets, Locker and Shower Rooms (complete) – gloss
4. All painted surfaces such as ducting, piping and structural metal located overhead and not subject to human contact may be finished using semi gloss materials.
5. Painted ceilings, which are over 8 ft. in height and in areas other than Kitchens, Restrooms or other areas of higher than average humidity, may be finished with a flat paint, unless otherwise noted.

# END OF SECTION