

SECTION 09 91 00 – PAINTING

1.0 GENERAL

1.1 Work to Be Painted

- A. Existing construction where cutting and patching has been done to accommodate new work.
- B. New construction required for the installation of the new work.

1.2 Quality Control

- A. Color and texture of finish coats shall match existing.
- B. Color of priming coat shall be lighter than body coat.
- C. Color of body coat shall be lighter than finish coat.
- D. Color prime and body coats as required so as to not show through the finish coat and to mask surface imperfections.

1.3 Bio-Preferred Products

- A. Interior Paints and Coatings - Latex and Waterborne Alkyd: Pigmented liquids, formulated for use indoors, that dry to form a film and provide protection and added color to the objects or surfaces to which they are applied. 20% - Minimum Biobased Content.
- B. Interior Paints and Coatings - Oil-based and Solventborne Alkyd: Pigmented liquids, formulated for use indoors, that dry to form a film and provide protection and added color to the objects or surfaces to which they are applied. 67% - Minimum Biobased Content.

1.4 Submittals

- A. Manufacturer's Literature and Data
 - 1. Before any work is done, but within thirty (30) calendar days after initial site visit, or any color and finish panels are prepared, submit manufacturer's literature, indicating brand names, kind, color, and texture of paint. Information shall include detailed material specifications and MSDSs to identify that paint, primers, and cleaning agents are no-VOC, or odor absorbing additives are included.
- B. Sample Panels
 - 1. Before any painting or finishing is done, submit panels to the Engineer for approval showing color and texture of finish coats or clear finishes. Panels to be composition board, 4-inch by 11-inch by 1/4-inch showing each color and finish. Attach labels to each panel stating the following:
 - a. Paint color and code.
 - b. Type of finish.
 - c. Name of contractor.
 - d. Name of project.
 - e. Locations to be finished.

1.5 Delivery and Storage

A. Delivery

1. All materials shall be delivered to the site in the manufacturer's sealed container marked to show the following:
 - a. Name of Manufacturer
 - b. Kind of paint
 - c. Batch number
 - d. Instructions for use
 - e. Safety precautions

B. Storage

1. Maintain space for storage and handling of painting materials and equipment in a neat and orderly condition.
2. Store all materials at the site at least 24 hours before using in order to bring their temperature to between 65 and 85 degrees Fahrenheit.

1.6 Job Conditions

A. Safety

1. Observe all required safety regulations and the manufacturer's warnings and instructions during the storage, handling and application of painting materials.
 - a. Necessary precautions shall be taken to protect personnel and property from hazards due to falls, injuries, toxic fumes, fire, explosion, or other harm.
 - b. Deposit soiled cleaning rags and waste materials in metal containers approved for that purpose. Dispose of such items off the site at the end of each day's work.

B. Lead-Based Paint

1. Lead-based paint is not permitted to be used.

C. Atmospheric and Surface Conditions

1. Do no exterior or interior painting in foggy, damp or rainy weather. When building is enclosed, interior work may be painted.
2. Paint exterior and interior surfaces when the ambient temperature is between 45 and 90 degrees Fahrenheit; except when water thinned paints are used, the ambient temperature shall be between 50 and 90 degrees Fahrenheit, unless otherwise designated in the manufacturer's printed instructions. Maintain these temperatures until the paint dries hard.
3. Apply only on clean, dry, and frost free surfaces. Apply water thinned acrylic and cementitious paints to damp (not wet) surfaces where allowed by the manufacturer's printed instructions.
4. Do no exterior painting when it is windy and dusty.
5. Do no painting in direct sunlight or on surfaces which will soon be warmed by the sun. Concrete and masonry surfaces to which water thinned acrylic and cementitious paints are applied shall be dampened with a fine mist of water on hot, dry days to prevent excessive suction and to cool the surface.

2.0 PRODUCTS

2.1 Paint

- A. Paint selected and used shall be in accordance with FAR PART 23 Biopreferred Products.
- B. The Engineer will provide paint color specifications for use in obtaining matching paint.
- C. All new paint colors and textures shall match those of the existing adjacent areas.
- D. Repaint the entire existing ceiling and/or wall surface that has been altered or damaged or where soffits are added due to installation of new work.
- E. Spot painting will be acceptable only if the painting matches the existing paint, to the Engineer's satisfaction. If the spot painting does not match, the entire contiguous surface shall be repainted.
- F. All paint shall be low or no-VOC paint for all applications.
- G. Paint shall be Sherwin Williams Harmony, Benjamin Moore Eco-Spec, or approved equal.

3.0 EXECUTION

3.1 Paint Preparation

- A. Thoroughly mix all painting materials to ensure uniformity of color, complete dispersion of pigment and uniform composition.
- B. No material shall be thinned, unless necessary for proper application and when finish paint is used for body and prime coats. Materials and the quantities used for thinning shall be in accordance with the manufacturer's printed instructions.
- C. Remove paint skins, then strain paint through commercial paint strainer to remove all lumps and other particles.
- D. Two component and two part paint, and those requiring additives, shall be mixed in such a manner as to be uniformly blended in accordance with the manufacturer's printed instructions.
- E. For tinting required to produce exact shades specified, use color pigment recommended by the paint manufacturer.

3.2 Surface Preparation

- A. General
 - 1. Remove radiators, lighting fixtures and similar items for complete painting of such items and adjacent areas.
 - 2. Contractor shall verify the requirements for surface conditions and prime coat.
 - 3. Surfaces to be finished shall be dry, clean, smooth, and prepared as specified.
 - 4. Materials and methods used for cleaning shall be compatible with the substrate and specified finish. Remove any residue remaining from cleaning agents used.
 - 5. Method of surface preparation is optional provided results of finish painting produce solid even color and texture specified.

B. Masonry, Concrete, Cement, Plaster and Stucco

1. Remove all dust, dirt, oil, grease efflorescence, and other deterrents to paint adhesion.
 - a. Use emulsion type cleaning agents to remove oil, grease, paint and similar products. The use of solvents, acid, or steam is not permitted.
 - b. Remove all loose mortar in masonry work.
 - c. Replace mortar and fill all open joints, holes, cracks and depressions with patching compound, finished flush with adjacent surface, with texture to match texture of adjacent surface.
 - d. Concrete floors to be painted shall be neutralized by washing with a solution of three pounds of zinc sulfate crystals to one gallon of water, allowed to dry three days and brushed thoroughly free of crystals.
 - e. Concrete shall have all broken and spalled edges repaired with patching compound to match adjacent surfaces. Remove projections to level of adjacent surface by grinding or similar methods.

C. Gypsum, Plaster and Drywall

1. Remove efflorescence, loose and chalking plaster. Remove dust, dirt, and other deterrents to paint adhesion.
2. Fill holes, cracks and other depressions with patching compound, finished flush with adjacent surface, with texture to match texture of adjacent surface.

3.3 Application

- A. Start of surface preparation or painting will be construed as acceptance of the surface as satisfactory for the application of materials.
- B. Unless otherwise specified, paint shall be applied in three coats: prime, body, and finish. When the two coats succeeding the prime coat are the same, the first coat applied over the primer shall be considered as the body coat, the second coat as the finish coat.
- C. Before application of body and finish coats, surfaces shall be primed except as otherwise specified.
- D. Retouch damaged and abraded painted surfaces before applying succeeding coats.
- E. Apply each coat evenly and in full covering body.
- F. No less than 48 hours shall elapse between application of succeeding coats, except as allowed by the manufacturer's printed instructions, and approved by the Engineer.
- G. Finished painted surfaces shall have solid even color, free from runs, lumps, brush marks, laps, holidays, or other defects.
- H. To prevent the items from sticking in the shut position, operable items such as access doors and panels, window sashes, rolling doors, and similar items shall not be painted when in the closed position.
- I. Paint may be applied by brush, roller or spray, except as otherwise specified.
- J. Spray painting will not be allowed unless approved by the Engineer.
 1. Painting materials specifically required by the manufacturer to be applied by spraying shall be so applied.
 2. In areas where paint is applied by spray, all items not to be painted shall be masked, or enclosed with polyethylene, or similar air tight material with all edges and seams continuously sealed.

END OF SPECIFICATION