

CLEAN AIR COUNTS  
STANDARD PAINT SPECIFICATIONS

**SECTION 09900 – PAINTING**

PART 1. GENERAL

1.01 SUMMARY

A. Work includes:

1. All labor, materials, tools, equipment, and services necessary for painting interior and exterior surfaces of the building as outlined below.
2. Paint all exposed surfaces new and existing unless otherwise indicated.
3. Do not paint prefinished items, finished metal surfaces, operating parts, labels, and materials obviously intended to be left exposed such as brick and tile. Do not paint concealed surfaces, with the following exceptions:
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_

B. Alternates:

1. Add Alternate 1: \_\_\_\_\_

1.02 ENVIRONMENTAL REQUIREMENTS

- A. Environmental standards, regulations, and requirements – Paint shall, *at a minimum*, comply with regulations of the South Coast Air Quality Management District (SCAQMD) for Architectural Coatings regulations effective 7/1/2002: <http://www.aqmd.gov/rules/html/r1113.html>.

Paint shall also comply with all other applicable local, regional, state and Federal Air Resources Board and Federal Lead Content Regulations.

- B. Use low-VOC products to minimize impact on indoor air quality. Non-specialty paint products must meet the following VOC content limits:
- Flat interior & exterior paint: 100 grams/liter (g/l)
  - Non-flat interior & exterior paint: 150 g/l
  - Primers, sealers, and undercoaters: 200 g/l
  - Stains: 250 g/l

Consult South Coast Air Quality Management District ruling for VOC limits of other types of coatings.

### 1.03 SUBMITTALS

- A. Product Data – Submit for Project Manager’s approval a complete list of paint materials proposed for use, together with manufacturer’s technical information, including paint label analysis and application instruction. Product data must include VOC content in grams/liter.
- B. Samples of Colors & Finishes – Submit for Project Manager’s approval color samples of each color to be used on the project.

### 1.04 QUALITY ASSURANCE

- A. All painting work shall be performed in accordance with manufacturer’s instructions.
- B. Painting shall only be performed when surface is dry and when weather conditions are satisfactory. Comply with paint manufacturer’s recommendation for environmental conditions in which paint materials can be applied.
- C. Do not paint in areas where dust is being generated or will be generated before the coatings are thoroughly dry.

### 1.05 MAINTENANCE STOCK

Deliver to owner a 1-gallon container, property labeled and sealed, of each color and type of finish coat paint used on project.

## PART 2. PRODUCTS

### 2.01 PAINT

- A. Use manufacturer’s best-quality paint material of the various coating types specified. Only pure, unadulterated first quality materials are permitted. Block fillers, primers, and undercoat materials for each coating system should be from the same manufacturer as the final coats.
- B. Whenever possible, use paints that are water-based, 100% solids, high-performance acrylics, which are low-VOC in content. Whenever possible, use stains that are water-based urethanes with low-VOC content. VOC content limits include:
  - Flat interior & exterior paint: 100 grams/liter (g/l)
  - Non-flat interior & exterior paint: 150 g/l

- Primers, sealers, and undercoaters: 200 g/l
- Stains: 250 g/l

Consult South Coast Air Quality Management District ruling for VOC limits of other types of coatings.

- C. Water-based paints shall not be formulated or manufactured with chemicals listed by Green Seal to be hazardous including, but not limited to: formaldehyde, halogenated solvents, aromatic hydrocarbons, mercury, and mercury compounds. Paints shall not be tinted with pigments of lead, cadmium, chromium, and their oxides.
- D. Oil-based paint should not be used unless there are no acceptable acrylic alternatives. Oil-based paints shall:
1. Not contain halogenated solvents
  2. Not be formulated or manufactured with formaldehyde, mercury, and mercury compounds.
  3. Not be pigmented with lead, cadmium, chromium, and their oxides.
  4. Not be formulated or manufactured with aromatic hydrocarbons in excess of 10%.

For increased resistance to yellowing, use only high quality, soy-based oil paints.

- E. No thinning, reducing or changing of mix is permitted unless specifically indicated herein.
- F. Paints are to be supplied in recycled or recyclable containers.
- G. Biocide content shall not exceed 0.025%, by weight or volume. Paint shall not contain fungicides or bactericides that are classified as mercury acetates, phenol phenates, or phenol formaldehyde.
- H. Specific products and systems are set forth in the Painting Schedule.

## 2.02 PAINT STRIPPERS

Shall not contain methylene chloride. Avoid products containing methanol and trichloroethane.

## PART 3. EXECUTION

### 3.01 EXAMINATION & PREPARATION

- A. Test old paint for lead before sanding, scraping, or removing. If lead is present, conform to procedures applicable when hazardous or contaminated materials are discovered.
- B. Correct any defects in surface prior to painting.
- C. Verify that substrates are completely dry, free of harmful substances, and in satisfactory condition to receive painting materials. Surface should be thoroughly cleaned of dirt, oil, grease, rust, loose coatings, scaling or chalking paint, mildew, efflorescence, and other matter that would adversely affect adhesion, protective properties or appearance of coating.

Materials resulting from cleaning procedures shall be contained and disposed of in accord with applicable regulations.

- D. Use protective covers, tape, or drop cloths to protect floors, fixtures and non-running equipment. Exercise care to prevent paint from being spattered onto surfaces that are not scheduled to be painted. Hardware, fixture canopies, outlet covers, switch plates, and other similar items should be removed and protected during painting and replaced upon completion of painting.
- E. Extinguish pilot lights before painting with solvent-based paint.

### 3.02 APPLICATION

- A. Water-based latex paint – Comply with manufacturer’s recommendations for application. May be applied by brush, roller, or sprayer.
- B. Oil-based paint – Comply with manufacturer’s recommendations for application. Sand lightly between coats and apply by brush or roller.
- C. Urethanes, water-emulsion – Maybe applied by brush, roller, or sprayer. Sand between coats.
- D. Paint strippers, low-emitting – Paint strippers that do not contain methylene chloride tend to be slower acting than conventional paint strippers and may take from one hour to overnight to work. Comply with manufacturer’s recommendations for application. Use appropriate protection: impermeable gloves, respirator, goggles.
- E. Other paint or coating – Comply with manufacturer’s recommendation for application.

- F. Apply material evenly. The finished work shall show no cloudiness, spotting, holidays, laps, brush marks, runs, curtains, sags, or other surface imperfections.
- G. Touch up and patch surfaces as required after the completion of work by other trades.

3.03 PAINTING SCHEDULE

A. Exterior Work

1. Cement, Stucco, and Masonry:

- a. Flat: 2 coats over primer, ICI Dulux Exterior Latex Flat Finish 2201 Series, VOC: 100 g/l
- b. Satin: 2 coats over primer, ICI Dulux Exterior Latex Satin Finish 2403 Series, VOC: 105 g/l
- c. Semigloss: 2 coats over primer, ICI Dulux Professional Exterior 100% Acrylic Semi-Gloss Finish 2406 Series, VOC: 187 g/l

2. Concrete Masonry Units:

- a. Flat: 2 coats over primer, ICI Dulux Exterior Latex Flat Finish 2201 Series, VOC: 100 g/l
- b. Satin: 2 coats over primer, ICI Dulux Exterior Latex Satin Finish 2403 Series, VOC: 105 g/l
- c. Semigloss: 2 coats over primer, ICI Dulux Professional Exterior 100% Acrylic Semi-Gloss Finish 2406 Series, VOC: 187 g/l

3. Exterior Gypsum Soffit Board:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

4. Smooth Wood

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

5. Wood Trim

- a. \_\_\_\_\_
- b. \_\_\_\_\_

- 6. Ferrous Metal
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_

- 7. Aluminum
- 
- 
- 

B. Interior Finishes

- 1. Concrete and Masonry:
  - a. Flat: 2 coats over primer, ICI Lifemaster 2000 Interior Flat LM 9100 Series, VOC: 0 g/l
  - b. Satin: 2 coats over primer, ICI Lifemaster 2000 Interior Eggshell LM 9300 Series, VOC: 0 g/l
  - c. Semigloss: 2 coats over primer, ICI Lifemaster 2000 Interior Semi-Gloss LM 9200 Series, VOC: 0 g/l

- 2. Concrete Masonry Units:
  - a. Flat: 2 coats over primer, ICI Lifemaster 2000 Interior Flat LM 9100 Series, VOC: 0 g/l
  - b. Satin: 2 coats over primer, ICI Lifemaster 2000 Interior Eggshell LM 9300 Series, VOC: 0 g/l
  - c. Semigloss: 2 coats over primer, ICI Lifemaster 2000 Interior Semi-Gloss LM 9200 Series, VOC: 0 g/l

- 3. Gypsum Wallboard
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_

- 4. Plaster
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_

- 5. Woodwork and Hardboard

- a. \_\_\_\_\_
- b. \_\_\_\_\_

6. Stained Woodwork

- a. \_\_\_\_\_
- b. \_\_\_\_\_

7. Natural Finish Woodwork

- a. \_\_\_\_\_
- b. \_\_\_\_\_

8. Ferrous Metal

- 
- 
- 

3.04 INDOOR AIR QUALITY

- A. Maximize ventilation during application and drying.
- B. Isolate area of application from rest of building.
- C. Painting should be performed prior to the installation of absorbent material such as carpeting and ceiling tile.
- D. Applicators shall wear protective clothing and respirators when applying oil-based paints or using spray equipment with any paints.
- E. Painting must be completed a minimum of 48 hours prior to occupancy.

3.05 CLEANUP

- A. Upon completion of work, remove excess paint, stain, varnish, adhesive, caulk, etc. from all other surfaces that were not specified to receive same.
- B. Equipment cleanup – Whenever possible, clean up shall be conducted with water or water-based agents. Mineral based thinners or solvents should only be used on an as needed basis after non-water-based applications.

3.06 WASTE MANAGEMENT

- A. Conform with Section 01505 CONSTRUCTION WASTE MANAGEMENT.

- B. Separate waste in accordance with the Waste Management Plan. Set aside extra paint for future color matches or reuse by Owner. Collect all waste paint by type and provide for delivery to recycling or collection facility.
- C. Close and seal tightly all partly used paint and finish containers and store protected in well-ventilated, fire-safe area at moderate temperature.
- D. Fully dry paint residues from latex paint may be disposed of in landfill.
- E. Place empty containers of solvent based paints in areas designated for hazardous materials.
- F. Do not dispose of paints or solvents by pouring on the ground. Place in designated containers for proper disposal.

**END OF SECTION 09900**