

Montgomery County Public Schools Facilities Guide

DIVISION 9 – FINISHES

SECTION 09910

PAINTING

**PART 1 GENERAL**

1.01 GUIDE INCLUDES

- A. Paint exposed surfaces not factory finished on exterior and interior materials as determined necessary by project Architect to achieve required material protection and desired project esthetics.
- B. Items to be painted:
  - 1. Materials not normally painted such as stainless steel, brick, ceramic tile, floor tile, chalkboards, etc. unless otherwise noted.
  - 2. Cement plaster soffits.

PARKING LOT STRIPING AND EXTERIOR GAME LINE STRIPING SHALL BE SPECIFIED UNDER ASPHALTIC CONCRETE PAVEMENT SECTION.

1.02 PERFORMANCE REQUIREMENTS

- A. No lead paint
- B. Existing oil base surfaces that are to be painted with latex paint shall first be primed with a primer recommended by paint manufacturer to ensure 100 percent bonding of the new paint.
- C. Painting of existing ceramic tile or glazed tile walls shall be first primed with manufacturer's recommended primer to ensure 100 percent bonding of the new paint or coating.
- D. Where existing areas with lead based paints are disturbed, air borne particle, water shall be avoided. Paint containing lead shall be wet scraped (No sanding) and shall comply with COMAR 09.12.32 and 26.02.07 Occupational Exposure to Lead in Construction publications, as administered by Maryland Occupational Safety and Health (MOSH) Public Sector and OSHA.
- E. In renovation projects, proper procedures per paint manufacturer's recommendations shall be exercised to ensure 100 percent bonding of paint to surfaces that have weathered a season or more without heat or in adverse environmental conditions.

1.03 SUBMITTALS:

- A. Submit paint manufacturer's material safety data sheets to MCPS's Safety & Environmental Health Unit for review and approval.
- B. Submit manufacturer's certification that field-applied paints and coatings applied in building interior meet testing and product requirements of California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.
- C. Final approved project color schedule shall be submitted by Contractor to MCPS Division of Maintenance's Paint Shop, 16651 Crabbs Branch Way, Rockville, Maryland 20855. Contractor shall include final color schedule in Operations, Maintenance, and Product Data Manuals.
- D. Submit location of manufacturer of paint products.

**PART 2 PRODUCTS**

Products to be verified for LEED-for Schools

2.01 MANUFACTURERS (SUBJECT TO COMPLIANCE WITH REQUIREMENTS, GIVE PREFERENCE TO PRODUCTS MANUFACTURED WITHIN A 500-MILE RADIUS OF THE PROJECT SITE)

- A. Duron Paints and Wallcoverings/div. Sherwin Williams
- B. The Glidden Co./ICI Paints
- C. PPG Industries Pittsburgh Paints
- D. Pratt & Lambert/div. Sherwin Williams
- E. Sherwin-Williams Co.
- F. M.A.B. Paints/div. Sherwin Williams
- G. McCormick Paints
- H. Benjamin Moore
- I. Devoe/div. ICI Paints
- J. Martin-Senour
- K. KEIM Mineral Paints - Ecosil

**Comment [MSOffice1]:** SDC review found the following PPG products LEED-S compliant: Pittsburgh Paints Speedhide Interior Latex Sealer, Interior Masonry Block Filler Latex 6-7, Interior Enamel Eggshell Latex 6-411 Series, Pure Performance Zero VOC Interior Semi-Gloss Latex 9-500 Series, Pitt-Glaze WB Water-Borne Acrylic Epoxy 16-551 Series, Pitt-Tech Interior Primer DTM Industrial Enamel 90-712 Series.

## 2.02 ENVIRONMENTAL PRODUCT REQUIREMENTS

- A. Paints and coatings applied in building interior shall meet testing and product requirements of California Department of Health Services *Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda*.
  1. At minimum, products need to comply with VOC limits specified in LEED-for Schools, version 2.2, EQc4. if alternatives tested to the CA protocol are not available.

**Comment [MSOffice2]:** SDC review found the following BM products LEED-S compliant: Aura Eggshell, Matte, Satin and Semi Gloss Waterborne Interior Paint. Also Eco Spec Eggshell, Flat, Primer Sealer and Semi gloss Interior Latex.

## 2.03 PAINT TYPES

- A. In general, the types of paint and number of coats shall be:
  1. Interior Gypsum Surfaces (except as noted below) - 1 coat vinyl acrylic latex wall primer-sealer and 2 coats vinyl acrylic latex (semi-gloss or eggshell finish).
  2. Interior Gypsum Surfaces in Skylight Shafts - 1 coat vinyl acrylic latex wall primer-sealer and 2 coats vinyl acrylic latex (flat).
  3. Interior CMU - 2 coats vinyl acrylic latex base alkali resistant block filler and 2 coats vinyl acrylic latex (semi-gloss or eggshell finish).
  4. Interior Brick and Concrete - 1 coat latex base primer-sealer and 2 coats vinyl acrylic latex (semi-gloss or eggshell finish).
  5. Interior Wood - 1 coat latex enamel undercoat-sealer, 2 coats alkyd base semi-gloss enamel or vinyl acrylic latex (gloss, semi-gloss or eggshell finish). Apply latex base enamel at shelving to be painted.
  6. Exterior Wood - 1 coat long oil alkyd primer plus 2 coats long oil alkyd gloss enamel.
  7. Ferrous Metal - 1 coat corrosion inhibiting primer plus 2 coats alkyd base (latex base if interior) gloss enamel (Satin finish at metal doors and frames.)
  8. Galvanized Metal (Interior) - 1 coat zinc dust primer plus 1 coat galvanized metal primer plus 2 coats latex base gloss enamel.
  9. Galvanized Metal (Exterior) - Pretreat surfaces with crystalline zinc phosphate treatment. Prime with one coat galvanized metal primer; and provide two finish coats of alkyd base exterior gloss enamel.
  10. Exterior and Interior Natural Aluminum - Pretreat surfaces with chromic acid etch. Prime with one coat yellow unthinned zinc chromate primer; and provide two finish coats of alkyd base (latex base if interior) gloss enamel.
  11. Insulation Covered Ducts and Pipes - 1 coat heavy bodied primer-sealer plus 2 coats latex base semi-gloss.

## 2.04 COLORS

- A. Project shall be limited to 5 color schemes. Maximum total number of paint colors, excluding color coded plumbing and graphics, shall be 10 for project.
- B. Architect shall submit a color scheme to Division of Construction and reviewed by a committee arranged by Division of Construction, before submitting to the school principal. Any requested changes by principal must be reviewed and approved by committee.

## PART 3 EXECUTION

### 3.01 PREP AND APPLICATION

- A. Painting shall be in accordance with industry standards in reference to preparation of surfaces, environmental conditions, and applications.
- B. Apply paint in a manner consistent with Division 1 Indoor Air Quality Management requirements.
- C. Scheduling of painting shall be coordinated to precede installation of finished materials such as flooring, casework, etc. Any finished material installed prior to painting shall be properly protected.
- D. Cleaning:
  - 1. Daily clean-up of empty cans, rags, rubbish and other discarded paint materials shall be removed from site by Contractor, in accordance with Federal, State and Local regulations.
  - 2. Upon completion, clean glass and paint spattered surfaces.

### 3.02 WASTE MANAGEMENT

- A. Recycle waste paint materials in accordance with Section 01524, Construction Waste Management requirements.

**END OF SECTION**