

SECTION 09900

PAINING

1. GENERAL

- 1.1 All work included under this heading shall be subject to the General Conditions of the entire operation. The Contractor for this portion of the work is required to refer especially thereto.
- 1.2 Title IV of the Lead Based Paint Poisoning Prevention Act (12 U.S.C. 1701u) and the implementing regulations in 24 CFR Part 35, which prohibits the use of lead-based paint in structures constructed or rehabilitated with federal assistance.

2. WORK INCLUDED

This Contractor shall furnish all labor and materials as indicated on the room finish schedule, and as shown on the drawings and/or herein specified as follows:

- 2.1 All unfinished, exposed surfaces shall be painted.
- 2.2 All interior metal that is not copper, aluminum, stainless steel, brass, bronze, chromium plated, or factory finished.
- 2.3 All gypsum board including, but not limited to those walls noted on the room finish schedule and drawings to receive paint.
- 2.4 Stain and lacquer all interior red oak woodwork.
- 2.5 Paint interior wood not red oak.
- 2.6 All exterior metal, that is not pre-finished or copper.
- 2.7 Sealed concrete.
- 2.8 Mechanical and Electrical work not in equipment room.
- 2.9 Furnish extra paint materials from the same production run as the materials applied, and in the quantities described below. Package with protective covering for storage and identify with labels describing contents. Deliver extra materials to Owner.

3. WORK NOT INCLUDED

The following items are supplied pre-finished and will require no finishing.

- 3.1 Acoustical ceilings
- 3.2 Ceramic Tile and V.C. Tile
- 3.3 Metal Lockers
- 3.4 Finished mechanical and electrical equipment
- 3.5 Light fixtures
- 3.6 Labels
Do not paint over UL, FMG, or other code-required labels or equipment name, identification, performance rating, or nomenclature plates.

4. CONDITIONS OF THE SURFACES

- 4.1 On all work, this Contractor is to receive the surface to be painted or otherwise treated by him, free from foreign matter such as concrete, plaster, grease, dust etc., caused by other crafts, and shall be required to do a nominal amount of sanding and cleaning before proceeding with his work.
- 4.2 Foreign matter shall be removed by the craft responsible for its presence, and the surface made acceptable to the Painting Contractor and the Architect. If surface is unacceptable the Painting Contractor shall not commence work and shall notify the Architect in writing.
- 4.3 Apply waterborne paints only when temperatures of surfaces to be painted and surrounding air are between 50 and 90-degrees F (10 and 32-degrees C).
- 4.4 Apply solvent-thinned paints only when temperatures of surfaces to be painted and surrounding air are between 45 and 95-degrees F (7 and 35-degrees C).
- 4.5 Do not apply paint in snow, rain, fog, or mist; or when relative humidity exceeds 85 percent; or at temperatures less than 5 degrees F (3-degrees C) above the dew point; or to damp or wet surfaces. (Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.)

5. MATERIALS – GENERAL

- 5.1 All materials to be used under this section of the specifications shall be delivered at the building in the original containers, with labels intact and seals unbroken.
- 5.2 No materials are to be reduced or changed except as specified by manufacturer of said materials.
- 5.3 All materials, except as otherwise specified, shall be of the “Best Grade” or “First Line” paint manufactured, approved by the Architect.
- 5.4 Colors: As selected by Architect from manufacturer’s full range.

6. WORKMANSHIP

- 6.1 All unfinished, exposed surfaces shall be painted.
- 6.2 All work shall be done by skilled mechanics in a workmanlike manner. All paints must be smoothly and evenly spread on or flowed on, and shall be free from runs, sags, crawling, or other defects. All painting shall be done under favorable weather conditions.
- 6.3 Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements for paint application. Comply with procedures specified in PDCA P4.
 - 6.3.1 Proceed with paint application only after unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
 - 6.3.2 Start of painting will be construed as Applicator’s acceptance of surfaces and conditions within a particular area.

7. PREPARATION

- 7.1 All greasy and oily metal surfaces to be painted shall be cleaned with benzine or mineral spirits before any paint is applied. All galvanized metal surfaces shall be treated with a solution made by adding eight (8) oz. of copper acetate or copper sulfate to one (1) gallon of warm water in an

earthenware or glass vessel, or with a proprietary etching liquid, or surfaces may be washed with benzine or mineral spirits, and a coat of zinc oxide, or other standard galvanized primer, red lead.

- 7.2 Do not apply exterior paint in damp, rainy weather or until the surface has dried thoroughly from the effect of such weather. Do not apply varnish or paint when temperature is below 50°F.
- 7.3 Surface to be stained or painted shall be clean, dry, smooth, and adequately protected from dampness. Each coat of paint shall be applied smoothly, worked out evenly and allowed to dry completely before the subsequent coat is applied.
- 7.4 Finished work shall be uniform and of the approved color. It shall completely cover, be smooth and free from runs, sags, clogging or excessive flooding. Make edges of paint adjoining other materials or colors sharp and clean without overlapping. Where high gloss, enamel is used, lightly sand undercoats to obtain finish coat.
- 7.5 At completion, touch up and restore finish where damaged and leave in good condition.
- 7.6 SURFACE PREPARATION
Concrete: Allow new concrete to cure for 28 days, Brush-off blast.

Concrete block: Allow mortar to cure for 28 days. Level protrusions and mortar spatter. All surfaces must be dry and clean.
- 7.7 Repair all necessary nail holes, dents, cracks, open joints, and other defects shall be done after the priming or first coat is dry, and before second coat is applied. Sand to a smooth finish. Putty shall be pure linseed oil-white lead whiting, put in color to match the finish coat. At least 24 hours shall be allowed between coats under most favorable conditions. All coats shall be of the proper consistency and well-brushed out.
- 7.8 WOOD
Sandpaper to smooth and even surface and then dust off. After priming or stain coat has been applied thoroughly fill all nail holes and other surface imperfections with spackle, tinted with primer or stained to match wood color.
- 7.9 STEEL AND IRON
Remove grease, dirt, mud, rust and scale as necessary to receive paint. Touch up any chipped or abraded places on items that have been shop coated. Where steel and iron have a heavy coating of scale, it shall be removed by descaling or wire brushing as necessary to produce satisfactory surface for painting.
- 7.10 GALVANIZED METAL
Thoroughly clean by wiping surfaces with prefix surface conditioner and primer with cook perma-grip galvanized primer.
- 7.11 TINTING
Tint each undercoat a lighter shade to simplify identification of each coat when multiple coats of same material are applied. Tint undercoats to match the color of the finish coat but provide sufficient differences in shade of undercoats to distinguish each separate coat.

8. RESPONSIBILITY

- 8.1 The Painting Contractor shall be held responsible for the finishing of his work in the manner and form prescribed by the Architect.
- 8.2 The final coat shall not be applied until all other crafts are finished with their work, their material and debris removed, and the premises turned over to the painting Contractor in broom-clean condition.

9. COLOR SAMPLES

The finished work shall match samples of colors and finishes, which will be prepared by the Contractor for the Architect's approval. Contractor shall provide 5' squared samples at site upon request from Architect. No work of any kind shall be performed until such samples have been approved. Bids shall be based on the use of the specific brands and quality as specified. No substitution shall be made without written approval of the Architect.

10. STORING

A room on the premises shall be assigned to the painting Contractor for the storage of his tools and materials. This Contractor shall properly protect the floor with drop cloths or building paper. All paint shall be mixed in suitable containers. Necessary precautions shall be taken to prevent fire.

11. PROTECTION

This Contractor shall protect the work of all other trades against damage or injury by his employees, or by his materials, tools or utensils used in connection with this work. Any damage done by him shall be repaired at his own expense.

12. COLORS

Colors shall be pure, nonfading pigments, finely ground. Colors that are to be used on plaster or cement shall be lime-proof.

13. INTERIOR

13.1 CONCRETE BLOCK (CMU)

- First Coat: Sherwin-Williams Pro Industrial Heavy Duty Block Filler, tinted. B42W150
- Second Coat: Sherwin-Williams ProMar 200 Zero VOC Latex, Sheen: Satin
- Third Coat: Sherwin-Williams ProMar 200 Zero VOC Latex, Sheen: Satin

13.1 CONCRETE BLOCK (CMU) – EPOXY

- First Coat: Sherwin-Williams Pro Industrial Heavy Duty Block Filler, tinted. B42W150
- Second Coat: Sherwin Williams, Pro Industrial Pre Catalyzed Waterbased Epoxy – Sheen: Low, K45
- Third Coat: Sherwin Williams, Pro Industrial Pre Catalyzed Waterbased Epoxy – Sheen: Low, K45

13.2 INTERIOR METAL

- First Coat: Metal primer: Benjamin Moore, Corotech Universal Metal Primer V131, tinted. Includes rust inhibitor.
- Second Coat: Benjamin Moore, Corotech Quick Dry Alkyd Enamel V231. Sheen: Semi-gloss
- Third Coat: Benjamin Moore, Corotech Quick Dry Alkyd Enamel V231. Sheen: Semi Gloss

13.2 INTERIOR METAL – DRYFALL

First Coat: Metal primer: Benjamin Moore, Ultra Spec HP Acrylic Metal Primer, tinted. HP04

Second Coat: Benjamin Moore, Dry Fall Latex, Sheen: Eggshell 396

Third Coat: Benjamin Moore, Dry Fall Latex, Sheen: Eggshell 396

13.3 RED OAK (Interior work)

First Coat: Factory formulated paste wood filler tinted applied at spreading rate recommended by manufacturer.

Second Coat: Factory formulated alkyd-based penetrating wood stain for in. application applied at spreading rate recommended by manufacturer.

Third Coat: Sherwin Williams Sher-Wood T60-FT-2.

Fourth Coat: Sherwin Williams Sher-Wood T70-FT-2 HIBILD Medium Rubber Effect Lacquer.

Includes exposed Red Oak throughout. All Red Oak shall be smoothly sandpapered with No. 00 or finer and dusted off before commencing operation. Steel wool and dust off each coat before the next coat is applied. Catalyzed conversion varnish (AWI TR4) is approved for the third and fourth coat.

13.4 WOODWORK (Not Red Oak)

All new woodwork not Red Oak shall be finished as follows:

First Coat: Tinted Wood Primer

Second Coat: Enamel Undercoat (tinted)

Third Coat: Flat Enamel

13.4 GYPSUM BOARD

First Coat: Sherwin Williams, ProMar 200 Zero Latex Primer, tinted. B28W2600

Second Coat: Sherwin Williams, ProMar 200 Zero, VOC Latex, Sheen: Satin

Third Coat: Sherwin Williams, ProMar 200 Zero, VOC Latex, Sheen: Satin

13.4 GYPSUM BOARD – EPOXY

First Coat: Sherwin Williams, ProMar 200 Zero Latex Primer, tinted. B28W2600

Second Coat: Sherwin Williams, Pro Industrial Pre Catalyzed Waterbased Epoxy – Sheen: Low, K45

Third Coat: Sherwin Williams, Pro Industrial Pre Catalyzed Waterbased Epoxy – Sheen: Low, K45

13.5 **CONCRETE FLOOR (Sealed Concrete)**

First Coat: Surecrete, SureSeal, HS 300 Series, premium acrylic concrete sealer.
Color: Clear

Second Coat: Surecrete, SureSeal, HS 300 Series, premium acrylic concrete sealer.
Color: Clear

Third Coat: Surecrete, SureSeal, HS 300 Series, premium acrylic concrete sealer.
Color: Clear. Restroom and Entry areas – add non-slip additive. Texture shall be cleanable with a mop. Provide a 12" sq. sample with grit for owner to review and approve prior to installation.

Special Note: Protect walls from splatters. The wall base adhesive will not secure to base properly in the event that the walls are not protected. Allow to cure for 24 hours prior to using sealed area.

Manufacturer: SureSeal Sealants; Phone 1-800-636-6677;
Sales Rep: Bruce Humphrey 770-375-9503.

14. EXTERIOR MATERIALS

14.1 **CONCRETE AND MASONRY**

(Does not include face brick and precast concrete.)

First Coat: Sherwin Williams Pro Industrial Heavy Duty Block filler B42W150

Second Coat: Sherwin Williams Loxon Self-Cleaning Acrylic Coating- Flat, LX13-50

Third Coat: Sherwin Williams Loxon Self-Cleaning Acrylic Coating- Flat, LX13-50

15. CLEANING AND REMOVAL OF RUBBISH

15.1 At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from project site.

15.2 After work of other trades is complete, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in PDCA P1.

15.3 Upon completion of all work under this Contract, the Contractor shall clean the entire area thoroughly, removing all paint splatters, droppings, etc., and touch up all damaged work to the satisfaction of the Architects.

15.4 Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces. The entire installation shall be thoroughly clean.

End of Section 09900