

DIVISION 9 – FINISHES

09500 Ceiling

Scope of Work

- The work covered by this Item shall consists of furnishing all ceiling finishes, equipped with fixing accessories including materials, labor, tools equipment and in accordance with Plan and/or shop drawings and as herein specified.

Material Requirement

- (CF-01) 4.5mm thick Fiber Cement Board on metal furring w/ proper bracket, supports (@ 600mm spacing) and finish in anti-bacterial paint, provide manhole.

Construction Requirements

- Provide all the necessary preparation of ceiling.
- Hanger rod with adjustable clip shall be at 1.00 m maximum interval both ways but provide additional hanger and support on critical areas.
- Provide all the necessary accessories and framing for proper installation.
- Ensure adequate hanger and support to all the utilities on the area.
- Restore all affected areas.

09600 Flooring

Scope of Work

- The work covered by this Item shall consists of furnishing all floor finishes, including all necessary surface preparations, floor leveling, materials, labor, tools equipment and in accordance with Plan and/or shop drawings and as herein specified.

Material Requirement

- a. (FF-02) 600mm x 600mm Homogeneous Porcelain Polished Floor Tiles (to matched specs and pantone of FF-01)
- b. (FF-03 and FF-04) 600mm x 600mm Homogeneous Porcelain Polished Floor Tiles
- c. Submit sample and layout of tiles for approval of CPDMO Project Architect/Engineer and End-users.
- d. Provide transition strip.

Construction Requirements

For Tiles

- Installation:
 - The Contractor shall carefully examine all surfaces over which the tiles are to be set.
 - Start in the center of the room or work area and work from the center towards the edges.
 - Keep tile lines and joints square, symmetrical, tight and even and each floor in a true, level plane, except where indicated as sloped.
 - Vary edge width as necessary to maintain full size tiles in the field but no edge tile shall be less than one half the field tile sizes, except where irregular shaped rooms make it impossible.
 - Provide proper adhesive, tile grout and floor leveling.
- Tile Laying Design:
 - The tile laying design shall be indicated on Plans and in the colors selected and approved by the CPDMO Architects/Engineers/Inspectors for each area.

- All joints shall be parallel to wall lines except otherwise indicated on plan.
- Where line patterns of tile run perpendicular to lines of other tiles, they shall be laid truly at right angles.
- Gaps between tiles must be consistent as indicated on plan or referred by the implementing unit.
- Adhesive:
 - Adhesive shall be applied in accordance with the adhesive manufacturer's printed directions unless specified or directed otherwise.
 - Smoking, the use of open flames, and other sources of ignitions are strictly prohibited in the area where solvent containing adhesives are being used or laid.
- Cutting, Cleaning and Protection
 - Cut ceramic floor tile to and fit around all permanent fixtures, pipes and outlets.
 - Cut edges, fit and scribe to walls and partition after flooring has been applied.
 - After the vinyl tiles and accessories are laid and set, it shall be cleaned with a cleaner as recommended by the manufacturer and a coat of approved seal polish.
 - After the floor has been waxed, they shall be carefully protected against damage, either with heavy building paper or by keeping traffic off the floors until the area is ready for use.

09700 Wall Finishes

Scope of Works

- The work to be done under this item consist of furnishing all required materials, fabricated woodwork, tools, equipment and labor and performing all operations necessary for the satisfactory completion of all carpentry and joinery works in strict accord with applicable drawings, details and these Specifications.

Materials Requirements

- (WF-02) 1.0mm thick laminate sheet with 10mm aluminum edging & groove on 3/4" plywood backing including all accessories
- Provide 100mm thick aluminum baseboard on all perimeter of interior wall (as specified on plan), and column and cabinet treatments.
- Submit sample and shop drawing for approval of CPDMO Project Architect/Engineer and End-users.

Construction Requirements

- Provide all the necessary accessories for proper installation.
- Follow plan for the design and layout of the partitions.
- Materials shall be subjected to the approval of the supervising CPDMO's Project Architect / Engineers / Inspectors.

09910 Paints and Coatings

Scope of Works

- This Item shall consist of furnishing all paints, enamels, varnishes and other products to be used including labor, tools and equipment required as shown on the Plans and in accordance with this Specification.

Materials Requirements

- (CF-02) Semi-gloss anti-bacterial Paint (puttied and sanded)

- (WF-01) Semi-gloss anti-bacterial Paint with full putty and sanded surface preparation; Spot putty and sanded; Specified materials shall be delivered to the job site bearing manufacturers' name, brand name, type of paint, analysis showing all important constituents of the paint, color of paint and instructions for thinning.
- (WF-03) Semi-gloss anti-bacterial Paint with full putty and sanded surface preparation for decal wall finish
- (WF-04) Semi-gloss anti-bacterial Paint with full putty and sanded (exterior)
- Specified item and/or its components shall be handled in such manner as to prevent damage. The same shall be properly protected from harmful elements or damage by other work prior to its incorporation into the Project.
- Store materials in a well-ventilated space designated for the storage and mixing of paint. Materials delivered to the site shall be properly stored as to minimize exposure to extremes of temperature.

Quality Assurance

- The University reserves the right to subject material samples to test at his expenses. If such material tests do not meet the specified standards, the cost will be charged to the Contractor.
- Number of coats, where specified, is minimum. Contractor shall apply as many as required to meet specifications for solid, uniform appearance. Where film thickness in mils is specified, spot checks will be made to determine compliance with specified thickness.

Submittals

- Submit 2 samples of each and every color or finish (including all coats). Where the same color or finish is to be applied over different materials, samples of each shall be submitted on different materials, where practical.
- Sample size shall be a minimum of 150 mm x 150 mm (6" x 6")

Protection

- Paint materials shall be properly protected from damage, providing for adequate storage space. Take all necessary precautions to prevent fire, such as keeping oily rags in U. L. approved metal containers or removing from building at the end of each day's work.
- All work fittings, furniture, etc., are to be suitably protected during execution of the work. Splashes on floors, walls, etc. are to be removed during progress of work and on the whole, left clean and perfect upon completion.
- No exterior or exposed painting shall be carried out under adverse weather conditions, such as extremes of temperature, during rain, fog, etc., or if there is excessive dust in the air.

Lead Content and Warning Labels

- The material manufacturer shall state the lead content on the label of any paint product container based on metal percentage of total solids.
- The label of any paint product exceeding 0.5% lead content shall include the following statement: "This paint contains more than 0.55 lead content and shall not be used on surfaces accessible to children."

Repair of Defective Work

- All defective or damaged work shall be restored to initial condition.
- All voids, cracks, nicks, etc., will be repaired with proper patching material and finished flush with surrounding surfaces.
- Marred or damaged shop coats on metal shall be spot-primed with appropriate metal primer.
- Defective or damaged items and/or components, which cannot be repaired or restored to initial conditions, shall be removed and replaced to the satisfaction of the Architect at no additional cost to the Owner.

Cleaning

- Upon completion of the building, the Painting Contractor shall remove all paint spots from all finished work, remove all empty cans and leave the entire premises free from rubbish or other debris caused by his work. He shall remove his equipment from the premises. He shall clean off all glass free from paint spots and smears and shall present the work clean and free from all types of blemishes.

Products

- General:
 - Materials are specified to establish the standards of grade and quality desired for the work, principal pigments and vehicle types and minimum percentage of solids content by volume.
 - The products of Manufacturers not named may be submitted for use provided they are equal in quality and grade to the primers and finishes specified as approved by the Architect. If substitute paint products are desired, a statement shall be submitted to the Architect giving the Manufacturers name, proposed primer and finish for each paint system, analysis for each type of paint, and the use or uses intended. Failure to submit such statements will be cause for rejection.
 - In cases where the name of a brand or supplier is mentioned under a particular specification, only paint or primer of that manufacturer is acceptable and no substitution shall be permitted on the grounds that the brand specified is not available in the local market. Materials of one manufacturer shall not be applied over that of another, except in the case of shop primer coat.
- Color, Gloss and Texture:
 - Refer to Finish Schedule. All work is to be completed without deviation from these unless written approval is received from the Architect. No extra cost shall be allowed because of the color variety scheduled.

Execution

- General:
 - Work-in-place, on which specified work is to be applied, shall be examined to ensure that conditions are satisfactory for application of specified materials. Any defect, which may influence satisfactory completion of specified work, shall be report, in writing, to the Architect. Absence of such notification will be construed as acceptance of work-in-place.
 - Do not apply exterior paint in damp or rainy weather or until surfaces have thoroughly dried from the effects of such weather.
 - Before start of painting, remove finish hardware, accessories, plates, lighting fixtures, and similar Items, as approved by the Architect, except U.L. Labels on Fire Door and Frames, which must not be removed. Use only workmen skilled in the applicable building trade for removal and reinstallation of finished item in-place.
 - The following items shall be masked or protected with suitable covering:
 - Sealing, caulking and glazing compounds (unless otherwise directed by the Architect)
 - Glass.
 - Gauges, thermometers and other recording devices.
 - Moving parts of machinery and other mechanical equipment - such as: shafts, couplings, valve stems, and the like.
 - Coated decorative sheet metal work.
 - Sprinkler heads and the like.
 - U.L. Labels

Surface Preparation as Applied to Various Substrate

a. Wood

New Surface:

- Surface to be painted should be clean and dry, free from oil, grease, dust, dirt, contaminants and all loose girt or mortar; sand rough edges remaining, countersink nail heads for putty applications.
- Dust off surfaces completely then wipe with a clean rag.

b. Metal

New Surface:

- Surface to be painted should be clean and dry, free from oil, grease, dust, dirt, wax, solder flux, and other contaminants by wiping with mineral spirits or paint thinner.
- Remove rust by wire brushing, sanding or scraping.
- Where maximum performance of protective coatings is necessary (e.g. Industrial Plants), prepare surface by blast cleaning.

c. Concrete:

New Surface:

- Surface to be painted should be clean and dry, free from oil, grease, dust, dirt, contaminants and all loose girt or mortar.
- Treat with masonry neutralizer. Mix (1) liter of B-44 with (16) liters of water. Apply liberally by brush and let dry overnight.
- Rinse with water to remove white crystals that form on the surface. Let dry.

Paint Application

- General: Specified work shall be done by skilled painters in a workmanlike manner. All spaces shall be broom-cleaned before painting is started. Surface to be painted shall be clean, dry, smooth and adequately protected from dampness. Each coat of paint shall be allowed to dry at least twenty-four (24) hours before succeeding coat is applied. Finish work shall be uniform, of approved color, smooth and free from runs, sags, defective coverage, clogging or excessive flooding. If surfaces are not adequately covered, as determined by the CPDMO Architect/Engineers/Inspectors, further coat shall be applied to the satisfaction of the CPDMO Technical Group. Edges of paint adjoining other materials or colors shall be sharp and clean without overlapping.
- Paint Mixing: Paint mixing and thinning shall be done only in accordance with directions of Manufacturer. Paint must be strained free from all skin and extraneous substances and shall be thoroughly mixed in a clean container during use.
- Methods of Application: Exterior first coats and Interior first coats shall be applied by brush, except on shop-primed surfaces, which shall be applied by brush or roller. All primer shall be applied by brush. Succeeding coats over field-primed surfaces and all coats over shop-primed surfaces may be applied by brush roller or spray. Distemper brushes are to be of approved type and less than 15 cm In width. Rollers for applying enamel shall have a short nap. Spray equipment shall be as recommended by the manufacturer of the paint used. Areas inaccessible to spray painting shall be coated by brushing or suitable method.
- Coating: Consecutive coats of paints are to be slightly differing tints except in the case white. Each coat shall be allowed to harden before the next is applied. Rubbing down between coats is to be done with fine abrasive paper.