

1 ASSEMBLY - GENERAL

- 1.1 The work of this section includes the provision of all design, labour, materials, equipment and services required to fabricate and install interior wall finishes as required for a complete project. The work includes, but is not necessarily limited to, the items referenced herein:
- 1.1.1 Ceramic tile finish systems
 - 1.1.2 Waterproofing membrane underlay for tile system
 - 1.1.3 Epoxy coatings.
- 1.2 Refer to Section C3040 - Interior Painting for field applied paint finish requirements for interior walls.
- 1.3 Qualifications: Applicator's shall be licensed to install manufacturer's product and have experience in the successful installation of the systems specified in this section for a minimum of 5 years.
- 1.4 Refer to space data sheets for wall finishes.

2 ASSEMBLY DESIGN CRITERIA

- 2.1 Minimize regular maintenance by providing interior finishes, which are easily cleaned, stain-resistant and abuse-resistant.
- 2.2 Comply with flame spread requirements of NBC. Provide finishes, which are compatible and consistent with each other to suit level of finish specified in this section. Select from readily available stock from suppliers with proven delivery record.
- 2.3 Provide durable, washable surfaces in areas susceptible to damage.
- 2.4 Washroom, change rooms and locker rooms require water-resistant gypsumboard or concrete block with ceramic tile finish up to 2200mm minimum above finished floor.
- 2.5 Public areas should be provided with hard surfaces that can be readily cleaned. Consider use of gypsum hardwall plaster, 1.5 - 3.0mm thick trowelled and polished to a fine, smooth, dense and glass-like finish for areas most susceptible to damage.
- 2.6 Protective wall treatment such as chair-rails and corner guards may also prevent damage to wall finishes.

3 ASSEMBLY COMPONENTS

3.1 CERAMIC WALL TILE

3.1.1 **General:**

- 3.1.1.1 Submittals: Submit samples in accordance with Section 01340 - Shop Drawings, Product Data, Samples and Mock-ups. Submit 300 x 300mm sample panels of each colour, texture, size, and pattern of tile.
- 3.1.1.2 Material and colour boards to be submitted to fully illustrate compatibility of proposed wall, floor, ceiling, door and other special finishes. Duplicate samples of each tile type, colour, and textured specified

- 3.1.1.3 Environmental Requirements: Do not apply wall finishes in areas where dust is being generated. Conform to manufacturer's recommended air temperatures, relative humidity, and substrate moisture content at installation area before, during and after application.
- 3.1.1.4 Do tile work in accordance with Installation Manual [200-1979], "Ceramic Tile", produced by Terrazzo Tile and Marble Association of Canada (TTMAC), except where specified otherwise.
- 3.1.1.5 Warranties: Provide a 1 year extended warranty against defects in materials and quality of work for a total warranty period of 2 years.
- 3.1.1.6 Provide maintenance data for resilient tile flooring for incorporation into manual specified in Section 01730 - Operations and Maintenance Manual.
- 3.1.1.7 Maintenance Materials: Provide minimum 2% of each type and colour of tile specified
- 3.1.2 **Design:**
 - 3.1.2.1 Do work in accordance with Terrazzo Tile and Marble Association of Canada (TTMAC) Installation Manual [200 1979 (revised 1989)].
 - 3.1.2.2 Provide waterproof membrane behind wall tiles subject to water exposure (i.e. showers).
 - 3.1.2.3 Provide a minimum of 2 colours for each tile type specified.
- 3.1.3 **Materials/Finishes:**
 - 3.1.3.1 Ceramic wall tile: to [CAN2-75.1-M77], Type 5, Class MR 2, cushioned edges, glazed surface, colour as selected by Consultant. Matching bullnose edge trim to suit application. Acceptable materials: [Olympia Concordia "Secura" Type 1, 75 x 57mm matte glazed, or Ramca RM-100 Series, 100 x 100mm, or Centura miki CM Series, 100 x 100mm].
 - 3.1.3.2 Water: potable and free of minerals which are detrimental to mortar and grout mixes.
 - 3.1.3.3 Dry set mortar: to [ANSI A118.1-1985], [Mapei kerabond with keralastic polymer additive].
 - 3.1.3.4 Organic adhesive: to [CGSB 71-GP-22M+Amdt-Jun- 78], Type 2.
 - 3.1.3.5 Thin set bond coat: as recommended by tile manufacturer.
 - 3.1.3.6 Dry curing wall grout: as recommended by tile manufacturer.
 - 3.1.3.7 Thin set system grout: [Keracolor/wall].
 - 3.1.3.8 Grout preparation: to manufacturers instructions.
 - 3.1.3.9 Thresholds: marble, 15mm thick, beveled two sides, honed finish to exposed surfaces, size to suit door opening and frame width.
 - 3.1.3.10 Floor sealer and protective coating: to tile and grout manufacturers recommendations.

3.1.4 **Fabrication/Installation:**

- 3.1.4.1 Apply tile or backing coats to clean and sound surfaces.
- 3.1.4.2 Fit tile around corners, fitments, fixtures, drains and other built-in objects. Maintain uniform joint appearance. Cut edges smooth and even.
- 3.1.4.3 Maximum surface tolerance 1:800.
- 3.1.4.4 Make joints between tile uniform and approximately 1.5mm wide, plumb, straight, true, even and flush with adjacent tile. Ensure sheet layout not visible after installation. Align patterns.
- 3.1.4.5 Lay out tiles so perimeter tiles are minimum 1/2 size.
- 3.1.4.6 Sound tiles after setting and replace hollow- sounding units to obtain full bond.
- 3.1.4.7 Make internal angles square, external angles bullnosed.
- 3.1.4.8 Use bullnose edged tiles at termination of wall tile panels, except where panel abuts projecting surface or differing plane.
- 3.1.4.9 Install divider strips at junction of tile flooring and dissimilar materials.
- 3.1.4.10 Allow minimum 24 h after installation of tiles, before grouting.
- 3.1.4.11 Clean installed tile surfaces after installation and grouting cured.
- 3.1.4.12 Apply floor sealers and protective coating in accordance with manufacturers instructions.
- 3.1.4.13 Waterproofing membrane: two-component polymer modified, fibre modified, flexible cementitious waterproofing mortar. Acceptable material: *[Mapei]*.

3.2 EPOXY WALL COATINGS

3.2.1 **General:**

- 3.2.1.1 Submittals: Duplicate 200 x 300 mm sample panels of each epoxy coating type, colour, and gloss specified.

3.2.2 **Design:**

- 3.2.2.1 Not applicable.

3.2.3 **Materials/Finishes:**

- 3.2.3.1 Solvent free, 2 component thermosetting cold cured, high build interior epoxy coating. semi-gloss finish.
- 3.2.3.2 Primers and substrate fillers per manufacturer's recommendation.

3.2.4 **Fabrication/Installation**

- 3.2.4.1 Apply primers to 0.75 mm thickness over substrate per manufacturer's written recommendations.
- 3.2.4.2 Apply epoxy coating in two individual, uniform applications. Apply evenly, uniform in colour and appearance, and free from defects detrimental to appearance or performance of coating.

- 3.2.4.3 Minimum dry film thickness to 0.75 mm. Verify film thickness of completed coating system in field using Tooke Mark II coating inspection gauge.

End of Section