

SECTION 09311 - CERAMIC TILE FLOOR FINISH

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Cleavage membrane and Portland cement mortar bed.
- B. Ceramic tile floor and base, installed using the thinset method, with cementitious grouted joints.
- C. Marble thresholds in wall openings.

1.02 RELATED WORK

- A. Section 03346 - Concrete Floor Finishing: Trowelling of floor slab for tile adhesive.
- B. Section 09312 - Ceramic Wall Tile Finish.
- C. Section 09330 - Quarry Tile.

1.03 REFERENCES

- A. ANSI A108.1 - Ceramic Tile Installed with Portland Cement Mortar.
- B. ANSI A108.4 - Ceramic Tile Installed with Water-Resistant Organic Adhesives.
- C. ANSI A108.5 - Ceramic Tile Installed with Dry-Set Portland Cement Mortar.
- D. ANSI A108.6 - Ceramic Tile Installed with Chemical Resistant, Water Cleanable Tile-Setting Epoxy.
- E. ANSI A118.1 - Dry-Set Portland Cement Mortar.
- F. ANSI-A118.3 - Chemical Resistant, Water Cleanable Tile- Setting Epoxy.
- G. ANSI A118.4 - Latex-Portland Cement Mortar.
- H. ANSI A136.1 - Organic Adhesives for Installation of Ceramic Tile.
- I. TCA 137.1 - Recommended Standard Specifications for Ceramic Tile.

1.04 QUALITY ASSURANCE

- A. Conform to ANSI - American National Standard Specifications for the Installation of Ceramic Tile.
- B. Conform to ANSI - Recommended Standard Specifications for Ceramic Tile - TCA 137.1.

1.05 SUBMITTALS

- A. Submit product data under provisions of Section 01300.
- B. Indicate patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, thresholds setting details.
- C. Submit product data, specifications, and instruction for using adhesives and grouts.
- D. Submit samples under provisions of Section 01300.
- E. Mount tile, adhesive, and grout on 16 X 16 inch plywood panel, representative of pattern, color variations, and grout joint size variations.
- F. Submit manufacturer's certification that tile materials supplied conform to TCA 137.1.

1.06 MAINTENANCE DATA

- A. Submit maintenance data.
- B. Include cleaning methods, cleaning solutions recommended, stain removal methods, and polishes and waxes recommended.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Protect adhesives from freezing or overheating in accordance with manufacturer's instructions.

PART 2 PRODUCTS

2.01 TILE MATERIALS

- A. Ceramic Floor Tile: Refer to finish schedule & notes.

- B. Thresholds: Marble type at all floor tile locations, color selected by architect, factory finish, 4 x 3/4 inch size by full width of wall or frame opening, beveled both sides, radiused edges from bevel to vertical face.

2.02 MORTAR MATERIALS

- A. Mortar Materials: ANSI Ceramic Tile Standard A-2.

2.03 ADHESIVE MATERIALS

- A. Organic Adhesive: ANSI A136.1, thinset bond type.
- B. Epoxy Adhesive: ANSI A118.3, thinset bond type.

2.04 MORTAR BED

- A. Mortar Bed: ANSI A118.1, thinset bond coat, dry-set cementitious mortar.

2.05 GROUT TYPE

- A. Grout: Cementitious type; color to be selected; resistant to shrinking.

2.06 ACCESSORIES

- A. Cleavage Membrane: 4 mil (0.1 mm) thick polyethylene film.

2.07 MORTAR MIX AND GROUT

- A. Mix and proportion pre-mix setting bed and grout materials in accordance with manufacturer's instructions.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install cleavage membrane
- B. Install ceramic tile floor, thresholds, and base in accordance with ANSI A108.1.
- C. Lay tile to pattern indicated. Verify pattern is uninterrupted through openings.
- D. Provide thresholds at wall or frame openings to other building areas not receiving ceramic tile floor finish.

- E. Cut and fit tile tight to protrusions and vertical interruptions. Form corners [and bases] neatly.
 - F. Work tile joints uniform in width, subject to variance in tolerance allowed in tile size. Joints: Watertight, without voids, cracks, excess mortar, or grout.
 - G. Sound tile after setting. Replace hollow sounding units.
 - H. Allow tile to set for a minimum of 48 hours prior to grouting.
- 3.02 PROTECTION
- A. Prohibit traffic from floor finish for 48 hours after installation.

END OF SECTION