

## **Porcelanite/Mannington Ceramic Tile**

Marketing Services Department

P.O. Box 1777

20 Victor Street

Lexington, NC 27293-1777

(704) 249-3931

Fax: (704) 242-5601

### **GRAND PRIX**

Suitable for heavy traffic areas in commercial installations, Grand Prix's textured surface has a Class IV glaze rating. The fume' coloration creates shade variation in each tile to enhance the overall beauty.

DESCRIPTION: Glazed. Matte fume' finish. Textured surface. Cushioned edge.

DURABILITY/APPLICATION: Durability Rating B: Heavy use or intensive foot traffic on commercial and residential installation. Interior/covered exterior. Glaze Rating Class IV.

SIZES: Nominal thickness is 5/16".  
8" x 8".

COLORS: 7

TRIM: 8" x 8". Surface bullnose, corner and 6" x 8" surface cove base available.

### **GRAND PRIX:**

Grand Prix has a textured, matte fume' finish and is available in seven (7) colors. Although shade variation is inherent in all fired ceramic products, the variation of color in Grand Prix is intentional and created by a fume' effect to enhance the overall beauty.

Grand Prix has a glaze suitable for heavy traffic wear in residential and interior commercial floor settings such as restaurants and malls. The single-fire manufacturing process creates a tile that is freeze-thaw stable so it will hold up in covered horizontal exterior applications. Grand Prix will also enhance interior or exterior vertical applications and countertops.

### **MANNINGTON CERAMIC TILE GLAZED FLOOR TILE**

#### **PRODUCT TEST DATA:**

Test # & Identification ASTM: C499 Thickness

Standard: 0.40" Max Range

MCT Test Results: Less than 0.11"

Test # & Identification ASTM: C499 Facial Dimension

Standard: 1.50% Max Range

MCT Test Results: Less than 0.66%

Test # & Identification ASTM: C485 Warpage (Convex)

Standard: 0.75% Max  
MCT Test Results: Less than 0.32%

Test # & Identification ASTM: C485 Warpage (Concave)  
Standard: 0.75% Max  
MCT Test Results: 0%

Test # & Identification ASTM: C502 Wedging  
Standard: 1.0% Max  
MCT Test Results: Less than 0.53%

Test # & Identification ASTM: C-609 Color Uniformity  
Standard: 3.0 Judds Max  
MCT Test Results: Less than 0.4 Judds

Test # & Identification ASTM: C373 Water Absorption  
Standard: 7.0% Max  
MCT Test Results: Less than 4.0%

Test # & Identification ASTM: C424 Crazing  
Standard: None Visible  
MCT Test Results: None Visible

Test # & Identification ASTM: C484 Thermal Shock  
Standard: No Disintegration  
MCT Test Results: No Disintegration

Test # & Identification ASTM: C482 Bond Strength  
Standard: 50 PSI Minimum  
MCT Test Results: 196.2 PSI Average

Test # & Identification ASTM: C648 Break Strength  
Standard: 250 LBS Minimum  
MCT Test Results: 400 LBS Average

Test # & Identification ASTM: C650 Acid and Base Resistance  
Standard: No Visible Change  
MCT Test Results: No Visible Change

Test # & Identification ASTM: C1028 Coefficient of Friction  
Standard: None  
MCT Test Results: 0.78 Dry, 0.57 Wet

Test # & Identification ASTM: C627 Robinson Wear Test  
Standard: No Chips, Cracks or Grout Damage  
MCT Test Results: Passed All Tests

Test # & Identification ASTM: Scratch Moh's Hardness  
Standard: None  
MCT Test Results: 6.5 to 7.0

The Standard Specification Data (above) is verification that Mannington Ceramic Tile meets or exceeds the American Standard Institute specifications as required in ANSI/137.1. Testing was performed by the Tile Council of America, Smith & Emery, Pittsburgh Testing Lab, and Law Engineering.

Master Grade Certificates can be furnished for qualified shipments upon request.

## **Architectural Specifications**

### **Part 1 - General**

#### **A. Description**

1. Work included: Provide all tile work complete in place as indicated on drawings, specified herein, or otherwise needed for a complete proper installation of the work in this section.
2. Related Work Specified Elsewhere
  - a. Lathing & Cement Scratch Coat - Section \_\_\_\_\_
  - b. Grab rails in tub areas - Section \_\_\_\_\_
  - c. Waterproofing - Section \_\_\_\_\_
  - d. Sealant for movement joints - Section \_\_\_\_\_

#### **B. Submittals**

1. When applicable, furnish Master Grade Certificate signed by both Porcelanite/Mannington Tile and the tile subcontractor.
2. Submit one sample panel approximately 12" square for each color, pattern and type of tile intended to be used.
3. Porcelanite/Mannington Tile shall furnish Certificates of Compliance stating conformance with all requirements of American National Standards Institute Specification ANSI A137.1-1988.

#### **C. Product Handling**

1. Deliver all products in original cartons with all labels intact.
2. Store tile in a dry, covered area.

#### **D. Environmental Conditions**

1. Maintain a temperature of at least 50°F during installation and for 7 to 10 days after completion.

#### **E. Stock Requirements**

1. Supply an additional 2% to 3% of each tile color and size for owner's use for repairs or replacement.

#### **F. Quality Assurance**

1. Contractors shall follow guidelines for ceramic tile installation as outlined in the Tile Council of America's (TCA) current Handbook for Ceramic Tile Installation.
2. Provide materials obtained from one source for each type of tile, grout and setting materials.
3. Use all products in strict accordance with the recommendations and directions of the manufacturer.
4. Use products manufactured or supplied by P & M Tile per approved samples and as approved by the architect.

### **G. Substitutions**

1. Where no brands or manufacturers are listed, only use materials that meet product specifications.
2. Suggest substitution of products only in writing and deliver samples to architect at least 21 days prior to receipt of bid. State any value change in the substitution.
3. Notify all bidders at least 14 days prior to date of bid. Reference any change of products.

## **Part 2 - Products**

### **A. Ceramic Tile**

1. Furnish Standard Grade complying with ANSI A137.1-1988 as supplied by Porcelanite/Mannington Tile, Inc., or approved equivalent.
2. Sizes, colors, textures and patterns as selected by the architect. See drawings and schedules.
3. Provide trim of the same color, size and finish to match field tile.
4. Accessories - furnish vitreous china accessories to coordinate with the color and finish of adjacent wall tile. See drawings and schedules.

### **B. Ceramic Mosaics**

1. Furnish Standard Grade complying with ANSI A137.1-1988 as supplied by Porcelanite/Mannington Tile, Inc., or approved equivalent.
2. Sizes, colors, textures and patterns as selected by the architect. See drawings and schedules.
3. Provide trim of the same color, size and finish to match field tile.
4. Use dot-mounted sheets.

### **C. Setting Materials**

1. Portland Cement Mortar Installation Materials - provide materials to comply with ANSI A 108.1 as required for the installation method designated.
2. Dry-Set Portland Cement - ANSI 118.1
3. Latex Portland Cement - ANSI 118.4
4. Organic Adhesives - ANSI 136.1
5. Epoxy - ANSI A 118.3
6. Metal Lath
  - Interior - ASTM C-847
  - Exterior - ASTM C-933
7. Membrane - 4 mil polyethylene film, ASTM C-171

### **D. Grouting Materials**

1. Ceramic Tile
  - a. Walls - Commercial Portland Cement Type Grout. See specifications for colors.
  - b. Floors - Commercial Cement Base Sanded Floor Grout. See specifications for colors.
2. Ceramic Mosaics
  - a. Walls and floors - Commercial Cement Base Sanded Floor Grout. See specifications for colors.

## **Part 3 - Installation**

### **A. Acceptability of Surfaces**

1. Assure surfaces to be tiled are smooth and level at the required finish elevation and fall within the following maximum variations:

### Walls

Dry-Set Mortar: 1/8" in 8 ft.

Epoxy: 1/8" in 8 ft.

Organic Adhesive: 1/8" in 8 ft.

### Floors

Dry-Set Mortar: 1/8" in 10 ft.

Epoxy: 1/8" in 10 ft.

Organic Adhesive: 1/16" in 3 ft.

2. Report all unacceptable surfaces to the architect and do not tile such surfaces until they meet the above requirements.
3. Before tiling, be sure surfaces are free of curing membranes, oil, grease, wax and dust.

### **B. Layout**

1. Determine the locations of all movement joints prior to beginning tile work.
2. Determine the location of all porcelain accessories before starting tile work.
3. Minimize tile cuts that are less than one-half tile in size.
4. Locate tile cuts in both walls and floors so as not to be obvious.
5. Layout tile wainscots to next full tile beyond dimensions shown.
6. Align all wall joints to give straight uniform grout lines, plumb and level.
7. Align all floor joints to give straight uniform grout lines, parallel with walls.

### **C. Setting Methods**

1. Ceramic Tile (Note: methods shown here are examples only. Specify one that is required.)
  - a. Walls
    - Masonry or concrete: ANSI 108.1, Reference TCA Method W211-86, Cement Mortar Board.
    - Gypsum Board: ANSI 108.4, Reference TCA Method.
    - Wood Studs or Furring: ANSI 108.1, Reference TCA Method W231-86, Cement Mortar.
  - b. Floors
    - Dimensionally Stable Concrete Subfloor: ANSI 108.4. Reference TCA Method F116.86, Organic Adhesive or Epoxy Adhesive.
    - Non-Dimensionally Stable Concrete Subfloor: ANSI 108.5. Reference TCA Method F113-86, Dry-Set or Latex-Portland Cement Mortar.
    - Wood Subfloor: ANSI 108.1 Reference TCA Method F141-86, Cement Mortar.
1. Mosaic Tile (Note: methods shown here are examples only. Specify one that is required.)
  - a. Walls
    - Dimensionally Stable Masonry Walls: ANSI 108.5, Ref. TCA Meth. W206-86, Dry-Set Mortar
  - b. Floors
    - Dimensional Stable Concrete Subfloor: ANSI 108.1 Reference TCA Method F112-86, Cement Mortar Bonded.
    - Non-Dimensionally Stable Concrete Subfloor: ANSI 108.1 Reference TCA Method F111-86, Cement Mortar Cleavage Membrane.
    - Wood Subfloor: ANSI 108.1 Reference TCA Method F141.86, Cement Mortar.

### **D. Grouting Methods**

1. Follow grout manufacturer's recommendations as to grouting procedures and precautions.

2. Remove all grout haze, observing grout manufacturer's recommendations as to use of acid and chemical cleaners.
3. Rinse tile thoroughly with clean water before and after using chemical cleaners.
4. Use soft cloth to polish completed tile work.

**E. Curing Protection**

1. Cover all tile floor with heavy-duty, non-staining construction paper, masked in place.
2. Prohibit all foot and wheel traffic from using newly tiled floors for at least 3 days, preferably 7 days.
3. Cover tile with wood planks in areas where traffic is unavoidable