



Cement Tile Technical Information

Artist Series, Cuban Heritage, Geometric, Heritage Solid Color & Traditional Lines

Materials utilized

Color layer

- White Portland cement
- Marble dust
- Silica sand
- Calcium carbonate
- Mineral pigments (iron, cobalt and chromium oxides)

Tile body

- Gray Portland cement
- Sand
- Calcium carbonate

Manufacturing process

Cement tiles are completely hand made. The color layer is prepared in batches and every component is weighted in order to guarantee color consistency. The color is mixed in a horizontal mixer that guarantees the homogenization of the mixture.

The color is then mixed with water and hand poured into the different molds. The thickness of the color layer will always be between 3 and 5 millimeters. Two layers of cement and sand are poured on top of the color layer and then the tile is pressed using a hydraulic press which applies 1,700 PSI of pressure.

The following day the tiles are soaked in water in order to achieve water saturation of the piece. This guarantees proper cement hydration. The tiles are left to dry for 10 days and then hand inspected. Tiles are ready for shipment 28 days after they've been manufactured. At this stage the cement form the body and the color surface will have obtained 98% of its resistance.

Dimensions and Weight with Tolerances

200x200 mm +/- 1mm, thickness 16 mm +/- 2 mm, weight 3.6 lbs +/- 0.1 lbs
7-7/8"x7-7/8" +/- 1/32" (7.874"x7.874 +/- 0.039"), thickness 5/8" +/- 1/16" (0.630")

250x250 mm +/- 1mm, thickness 18 mm +/- 2 mm, weight 5.5 lbs +/- 0.1 lbs
9-7/8"x9-7/8" +/- 1/32" (9.842"x9.842" +/- 0.039"), thickness 3/4" +/- 1/16" (0.630")



avente llc.

H a n d P a i n t e d T i l e s

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Average coefficient of friction

Unpolished / dry: 0.88

Unpolished / wet: 0.92

Polished / dry: 0.83

Polished / wet: 0.68

Freeze/Thaw resistance

Cement tiles are not resistant to freeze/thaw cycles and should not be used outdoors where freezing temperatures may exist.

Acid resistance

Cement tiles are not resistant to acids and should be cleaned with neutral cleaners.