

TECHNICAL SPECIFICATION FOR SINGLE-LAYER OUTDOOR TERRAZZO TILE 600x600x24mm FLOOR COVERING MATERIAL AND INSTALLATION

GENERAL:

Terrazzo is a single-layer flooring material composed of natural granite, marble, and basalt aggregates ranging between 1–17 mm, containing no organic substances, and using CEM I PÇ 42.5 Portland cement as a binder. The composite raw material mixture is compressed under 900 tons of high pressure in robotic automatic presses, resulting in minimized water absorption values.

During the production process, unlike conventional tiles, there is no need for a sandy bottom layer traditionally used to absorb excess water from the top layer. The excess water within the mixture inside the mold is discharged during the first and second pressing stages through special filter fabrics located beneath the mold and by vacuum method through the upper pressing head. Through these methods, the structural quality of the material is enhanced, and the internal water and void content are minimized.

The pressed material is subjected to special steam curing in steam chambers at gradually increasing temperatures. After the steam curing process, it undergoes staged calibration and polishing using diamond and abrasive stones.

MATERIAL:

Standard	: TS 213 – 2 EN 13748 – 2
Pressing Pressure	: 900 Ton
Dimensions	: 600 x 600 x 24 mm (Tek Tabakalı)
Dimensional and Thickness Tolerance	: Kenar uzunluğu; \pm % 0,1 Birim kalınlığı; \pm 0,5 mm
Breaking Load Class	: 30-3T
Flexural Strength	: 5,0 Mpa (Sınıf 3 – UT)
Flexural Tensile Strength	: min. 5 N / mm ²
Abrasion Resistance	: \leq 18 cm ³ / 50 cm ²
Water Absorption by Mass	: \leq % 5
Fire Resistance Class	: A1

TERRAZZO INSTALLATION:

The material to be installed shall be stacked on a flat surface, no more than two pallets high, until the flooring process is completed. It shall be covered with waterproof material that allows adequate ventilation. The contractor shall ensure that the stored materials on-site are protected from various types of damage such as dust, dirt, chemicals, and other harmful substances. Damaged or defective materials shall be replaced by the contractor at no additional cost to the employer.

Before flooring installation, the existing concrete surface shall be cleaned, and a leveling layer with a minimum thickness of 3 cm (1 m³ washed and sieved sand + 500 kg cement + 0.290 m³ water) shall be applied. After completion of the leveling layer, the surface shall again be cleared of dust, dirt, etc. During installation and for 48 hours after installation, the ambient temperature must not fall below +5°C.

Terrazzo tiles shall be installed using a TS EN 12004 C1TE certified adhesive mortar (C: Cement-based, 1: Standard performance, T: Reduced slip, E: Extended open time). The tile adhesive shall be prepared in accordance with the manufacturer's instructions and applied to the surface using a notched trowel appropriate for the tile dimensions. Tiles shall be fixed into the combed adhesive within a maximum of 30 minutes.

Terrazzo tiles shall be laid in accordance with the finished floor levels specified in the project, ensuring proper alignment, levelness, and without creating level differences. It is recommended that joint gaps be left between the tiles during installation. After completing the installation, grout application shall be carried out after waiting a minimum of 24 hours.

The grout to be used must be in a color compatible with the Terrazzo tile. Tiles requiring cutting during installation shall be cut using a wet cutting system saw. After all installation processes are completed, the surface shall be cleaned with natural soap. For post-installation use, cleaning of the material shall be carried out only with natural soap.

PROPERTY	VALUES REQUIRED IN TS 213	
	2-Layer Classic Tile	Single-Layer Slab
Surface Smoothness	Anma Boyutunun en fazla % 0,75 i	
Surface Gloss	14 Gloss	35 Gloss
Water Absorption	Max. %7	Max. %5
Bending Tensile Strength	Min. 5 N/mm ²	Min. 6 N/mm ²
Abrasion Resistance	Max. 25cm ³ /50cm ²	Max. 20cm ³ /50cm ²
Abrasion Resistance After the Don Test	Max. 21cm ³ /50cm ²	Max. 15cm ³ /50cm ²