



Ceramic Tile Mortar

**Polymer-Enriched
Thin-Set Mortar**



DESCRIPTION

Ceramic Tile Mortar is a regular-setting, polymer-enriched ("modified") mortar for installing tile and stone on floors and walls in thin-set applications.

FEATURES AND BENEFITS

- An economical polymer-enriched mortar with good bond for installing ceramic tile and most natural stone on floors and walls
- Mix with water only.

INDUSTRY STANDARDS AND APPROVALS

- ANSI: Exceeds ANSI A118.4 and ANSI A118.11 bond strength requirements

LEED Points Contribution

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MR Credit 5, Regional Materials* Up to 2 points

IEQ 4.1, Low-Emitting Materials – Adhesives & Sealants 1 point

IEQ 4.3, Low-Emitting Materials – Flooring Systems 1 point

** Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.*

SUITABLE TILE AND STONE

- Ceramic tile, quarry tile, pavers and Saltillo tile and most types of marble, granite and natural stone
- Best for small tile and tile up to 15" x 15" (38 x 38 cm)

SUITABLE SUBSTRATES (properly prepared)

- Concrete (cured at least 28 days)
- Cement mortar beds, masonry block and leveling coats
- Cement backer units – see manufacturer's installation guidelines
- APA and CANPLY Group 1 exterior-grade plywood (interior, residential and light commercial in dry conditions only)
- Gypsum wallboard (properly primed), interior only
- MAPEI waterproofing, crack-isolation and sound-reduction membranes

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

WHERE TO USE

- Most interior/exterior residential installations on floors and walls
- Most interior/exterior commercial installations on floors
- Most interior commercial installations on walls

LIMITATIONS

- Install only at temperatures between 40°F and 95°F (4°C and 35°C).
- Do not use for moisture-sensitive stone such as green marble, Rosso Levanto (red marble), Negro Marquina (black marble), some limestone, green granite, agglomerate tiles, cultured marble or resin-backed tiles. Instead, use suitable epoxy or urethane adhesives. See the respective Technical Data Sheet (TDS) for more information.

- Do not use over presswood, particleboard, chipboard, Masonite, Luan, plastic laminate surfaces, vinyl composition tile (VCT), vinyl sheet goods, substrates containing asbestos, cutback adhesive residue, metal, dimensionally unstable substrates such as hardwood flooring, and oriented strand board (OSB). See the "Suitable Substrates" section.
- Do not use on commercial building facades such as shopping malls, office buildings, high-rise residential units, etc.
- To use directly over gypsum-based patching or leveling substrates, apply a suitable primer before use (see the "Suitable Substrates" section).
- Use a white mortar when installing light-colored stones and translucent marble.
- Do not use for installations subject to prolonged water immersion (swimming pools, spas, steam rooms, gang showers, hot tubs, fountains, etc.).
- *Ceramic Tile Mortar* is not recommended for areas subject to severe freeze/thaw conditions. Instead, mix MAPEI's *Polymer Additive* with an appropriate thin-set mortar.

SURFACE PREPARATION

- All substrates should be structurally sound, stable, dry, clean, and free of any substance or condition that may reduce or prevent proper adhesion.
- See MAPEI's "Surface Preparation Requirements" document in the Product Information section of the Tile & Stone Installation Systems page on MAPEI's Website.

MIXING

Before starting, take appropriate safety precautions and choose all appropriate safety equipment. Refer to the Safety Data Sheet for more information.

1. Pour about 5 to 6 U.S. qts. (4,73 to 5,68 L) of clean water into a clean mixing container.
2. Gradually add 50 lbs. (22,7 kg) of powder while slowly mixing with an angled cross-blade mixer or double-box mixer.
3. Continue low-speed mixing (at about 300 rpm) for about 5 minutes until the mixture becomes a smooth, lump-free paste. Avoid prolonged mixing.
4. Let the mixture stand for 10 minutes.
5. Remix for 2 minutes.
6. If the mixture becomes heavy or stiff within 2 hours, remix without adding more liquid.

PRODUCT APPLICATION

1. Choose a typical notched trowel (see the "Approximate Coverage" chart) with sufficient depth to achieve more than 80% mortar contact to both the tile and substrate for all interior applications, and more than 95% for exterior installations as well as commercial floor and wet applications. It may be necessary to back-butter in order to reach these requirements. (Refer to ANSI A108.5 specifications and TCNA Handbook guidelines.)
2. With pressure, apply a coat by using the trowel's flat side to key mortar into the substrate.
3. Apply additional mortar, combing it in a single direction with the trowel's notched side.
4. Spread only as much mortar as can be tiled before the product skins over. Open time can vary with jobsite conditions.
5. Place the tiles firmly into the wet mortar. Push the tiles back and forth in a direction perpendicular to the trowel lines, to collapse the mortar ridges and to help achieve maximum coverage. Periodically lift a few tiles to check for acceptable coverage.
6. Remove excess mortar from the joint areas so that at least 2/3 of the tile depth is available for grouting (see ANSI A108.10 guidelines).

EXPANSION AND CONTROL JOINTS

- Provide for expansion and control joints as specified per TCNA Detail EJ171.
- Do not cover expansion joints with mortar.

CLEANUP

- While the mortar is fresh, clean tools and tile with water.

PROTECTION

- Protect from foot traffic and wait 16 to 24 hours before grouting.
- Protect from heavy traffic, frost and rain for 7 days.

ANSI Specification

Test Method	Specification Standard
ANSI A118.4 – shear strength, impervious ceramic (porcelain) mosaics	> 200 psi (1,38 MPa) at 28 days
ANSI A118.4 – shear strength, glazed wall tile	> 300 psi (2,07 MPa) at 28 days
ANSI A118.4 – shear strength, quarry tile to quarry tile	> 150 psi (1,03 MPa) at 28 days

Shelf Life and Application Properties* at 73°F (23°C) and 50% relative humidity



Shelf life	1 year
Open time*	20 to 30 minutes
Pot life*	> 2 hours
Time before grouting*	16 to 24 hours
VOCs (Rule #1168 of California's SCAQMD)	0 g per L

* Open time, pot life and time before grouting vary based on jobsite conditions.

Packaging

Size and Color
Bag: 50 lbs. (22,7 kg), gray
Bag: 50 lbs. (22,7 kg), white

Approximate Coverage** per 50 lbs. (22,7 kg)

Typical Trowel	Coverage
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) 	75 to 90 sq. ft. (6,97 to 8,36 m²)
1/4" x 3/8" x 1/4" (6 x 10 x 6 mm) 	55 to 65 sq. ft. (5,11 to 6,04 m²)

** Trowel dimensions are width/depth/space. Actual coverage will vary according to substrate profile and tile type.

Refer to MAPEI's SDS for specific data related to VOCs, health and safety, and handling of product.

STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith.

**ANY CLAIM SHALL BE DEEMED WAIVED UNLESS
MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS
FROM DATE IT WAS, OR REASONABLY SHOULD HAVE
BEEN, DISCOVERED.**

We proudly support the following industry organizations:



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