



Rapid-Set Tile Mortar

Polymer-Enriched Thin-Set Mortar



DESCRIPTION

Rapid-Set Tile Mortar is a rapid-setting, polymer-enriched (“modified”) mortar for installing a wide range of tile and stone over a diverse range of substrates in thin-set applications.

FEATURES AND BENEFITS

- Rapid-setting: Ideal for projects that must be completed quickly, and allowing grouting after 2 to 3 hours
- Higher polymer content provides a stronger bond, with a wider range of tile and stone to a wider range of substrates.
- Allows tile to be installed over existing tile and other substrates to save time
- Smooth and creamy consistency for easy application
- Mix with water only.

INDUSTRY STANDARDS AND APPROVALS

- ANSI: Exceeds ANSI A118.4 and ANSI A118.11 bond strength requirements for fast-setting mortars when mixed with water

SUITABLE TILE OR STONE

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

SUITABLE SUBSTRATES

- Concrete (cured at least 28 days)
- Masonry cement block, brick, cement mortar beds and leveling coats
- Cement backer units (CBUs) (see manufacturer’s installation guidelines)
- Gypsum wallboard and plaster – interior walls in dry areas only (See “Surface Preparation” section below)
- APA and CANPLY Group 1 exterior-grade plywood (interior, residential and light commercial in dry conditions only)
- Properly prepared vinyl composition tile (VCT), plastic laminate countertops, noncushioned sheet vinyl and cutback residue (interior only)
- Properly prepared existing ceramic and porcelain tile, cement terrazzo, quarry tile and pavers (interior only)
- MAPEI waterproofing, crack-isolation and sound-reduction membranes

Contact MAPEI’s Technical Services Department for installation recommendations regarding substrates or 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

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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 or resin-backed tiles. Instead, use a suitable epoxy or urethane adhesive. See the respective Technical Data Sheets for more information.
- Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), substrates containing asbestos, or metal. See the "Suitable Substrates" section below.
- To use directly over gypsum-based patching or leveling substrates, apply suitable primer before use. See MAPEI Technical Bulletin 010506-TB, "Installing MAPEI Products Over Gypsum."
- Use a white mortar when installing light-colored stones and translucent marble.
- Installations of tile over nonporous surfaces (waterproofing membranes, sheet membranes, existing tile, etc.) may require extended setting/curing times.
- Do not use for installations subject to prolonged water immersion.
- Not recommended for areas subject to severe freeze/thaw conditions. Instead, use a MAPEI liquid latex additive mortar system.

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 for tile and stone installation at www.mapei.com.

MIXING

Before starting, take appropriate safety precautions and choose all appropriate safety equipment. See Material Safety Data Sheet (MSDS) for details at www.mapei.com.

1. Into a clean mixing container, pour the following amounts of clean water according the bags sizes indicated:
For 25-lb. (11,3-kg) bag:
About 2.5 to 3 U.S. qts. (2,37 to 2,84 L) of clean water
For 50-lb. (22,7-kg) bag:
About 5 to 6 U.S. qts. (4,73 to 5,68 L) of clean water
2. Gradually add powder while slowly mixing using an electric drill with an angled cross-blade mixer or double box mixer.

3. Continue low-speed mixing (at about 300 rpm) for about 3 minutes for a 25-lb. (11,3-kg) bag and 5 minutes for a 50-lb. (22,7-kg) bag, until mixture becomes a smooth, lump-free paste. Avoid prolonged mixing.

4. Do not let mixture stand. Spread immediately.

5. If mixture becomes heavy or stiff within 30 minutes, remix without adding more liquid.

APPLYING

1. Choose a typical notched trowel (see 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, commercial floor and wet applications. It may be necessary to back-butter the tile in order to meet 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 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 trowel lines, to collapse the mortar ridges and to help achieve maximum coverage. Ensure proper contact between mortar, tile and substrate by periodically lifting 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 any expansion joints with mortar.

CLEANUP

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

PROTECTION

- Protect floor for 2 to 3 hours before grouting.
- Protect from foot traffic for 6 hours.
- Protect from heavy traffic for 24 hours.
- Protect from frost and rain for 7 days.

Product Performance Properties

ANSI Specification

Test Method	ANSI Specification	Test Results
ANSI A118.4 – shear strength, impervious ceramic (porcelain) mosaics	> 200 psi (1,38 MPa) at 28 days	485 to 625 psi (3,34 to 4,31 MPa)
ANSI A118.4 – shear strength, glazed wall tile	> 300 psi (2,07 MPa) at 28 days	485 to 600 psi (3,34 to 4,14 MPa)
ANSI A118.4 – shear strength, quarry tile to quarry tile	> 150 psi (1,03 MPa) at 28 days	550 to 750 psi (3,79 to 5,17 MPa)
ANSI A118.11 – shear strength, quarry tile to plywood	> 150 psi (1,03 MPa) at 28 days	200 to 325 psi (1,38 to 2,24 MPa)

Shelf Life and Application Properties*

at 73°F (23°C) and 50% relative humidity

Shelf life.....	1 year
Open time*.....	10 to 20 minutes
Pot life*.....	30 minutes
Time before grouting.....	2 to 3 hours
VOCs (Rule #1168 of California's SCAQMD).....	0 g per L

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

Packaging

Product Code	Size and Color
10825136	Bag: 25 lbs. (11,3 kg), gray
10850136	Bag: 50 lbs. (22,7 kg), gray

Approximate Product Coverage*

Typical Trowel		Coverage for 50 lbs. (22,7 kg)
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)

Typical Trowel		Coverage for 25 lbs. (11,3 kg)
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)		38 to 45 sq. ft. (3,53 to 4,18 m²)
1/4" x 3/8" x 1/4" (6 x 10 x 6 mm)		28 to 33 sq. ft. (2,60 to 3,07 m²)

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

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Refer to the MSDS 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.**

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