

DESCRIPTION

Porcelain Tile Mortar is a regular-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

- Higher polymer content provides a stronger bond, with a wider range of tile and stone to a wider range of substrates.
- Allows tile over existing tile installation to save time
- Smooth and creamy consistency for easy application
- Mix with water only.

INDUSTRY STANDARDS AND APPROVALS

• Exceeds ANSI A118.4 and ANSI A118.11 bond strength requirements

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 (properly prepared)

- 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 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) and cutback residue (interior only)
- Properly prepared existing ceramic and porcelain tile, quarry tile and pavers (interior only)
- MAPEI waterproofing, crack-isolation and sound-reduction membranes

Contact MAPEI's Technical Services Department for installation recommendations concerning 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



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 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.
- To use directly over gypsum-based patching or leveling substrates, apply suitable primer before use (see "Surface Preparation" below).
- Installations of tile over nonporous surfaces (waterproofing membranes, sheet membranes, existing tile, etc.) may require extended setting/curing times.
- Use a white mortar when installing light-colored stones and translucent marble.
- Do not use for installations subject to prolonged water immersion.
- Not recommended for areas subject to severe freeze/ thaw conditions. Instead, mix 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 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 product details at www.mapei.com.

 Into a clean mixing container, pour the following amounts of clean water according the bags sizes indicated:

For 10-lb. (4,54-kg) bag:

About 1 to 1.2 U.S. qts. (0,95 to 1,14 L) of clean water 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 1.25 to 1.5 U.S. gals. (4,73 to 5,68 L) of clean water

- Gradually add powder while slowly mixing using an electric drill with an angled cross-blade mixer or double box mixer.
- Continue low-speed mixing (at about 300 rpm) for about 5 minutes for 25-lb. or 50-lb. (11,3-kg or 22,7-kg) bags (or about 3 minutes for 10-lb. [4,54-kg] bag) until mixture becomes a smooth, lump-free paste. Avoid prolonged mixing.
- 4. Let mixture stand for 10 minutes.
- Remix for 2 minutes.
- 6. If mixture becomes heavy or stiff within 2 hours, remix without adding more liquid.

APPLYING

- 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 backbutter the tile in order to meet these requirements. (Refer to ANSI A108.5 specifications and TCNA handbook quidelines.)
- With pressure, apply a coat by using the trowel's flat side to key mortar into the substrate.
- Apply additional mortar, combing it in a single direction with the trowel's notched side.
- Spread only as much mortar as can be tiled before product skins over. Open time can vary with jobsite conditions.
- Place tiles firmly into wet mortar. Push tiles back and forth in a direction perpendicular to trowel lines, to collapse the mortar ridges and help achieve maximum coverage. Periodically lift a few tiles to check for acceptable coverage.
- Remove excess mortar from the joint areas so 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 from foot traffic 16 to 24 hours before grouting.
- Protect from heavy traffic, 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	330 to 425 psi (2,28 to 2,93 MPa)
ANSI A118.4 – shear strength, glazed wall tile	> 300 psi (2,07 MPa) at 28 days	400 to 600 psi (2,76 to 4,14 MPa)
ANSI A118.4 – shear strength, quarry tile to quarry tile	> 150 psi (1,03 MPa) at 28 days	350 to 475 psi (2,41 to 3,28 MPa)
ANSI A118.11 – shear strength, quarry tile to plywood	> 150 psi (1,03 MPa) at 28 days	150 to 200 psi (1,03 to 1,38 MPa)



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

1 year	
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> 2 hour	
routing16 to 24	hours
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0 g per L	-
outing16 to 24 1168 of California's	s hours

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

Packaging

Product Code	Size and Color
11510136	Bag: 10 lbs. (4,54 kg), gray
11525136	Bag: 25 lbs. (11,3 kg), gray
11625136	Bag: 25 lbs. (11,3 kg), white
11550136	Bag: 50 lbs. (22,7 kg), gray
11650136	Bag: 50 lbs. (22,7 kg), white

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)	

I	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)

Typical Trowel	Coverage for 10 lbs. (4,54 kg)
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)	15 to 18 sq. ft. (1,39 to 1,67 m²)
1/4" x 3/8" x 1/4" (6 x 10 x 6 mm)	11 to 13 sq. ft. (1,02 to 1,21 m²)

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





Refer to MAPEI's 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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