



Natural-Stone & Marble Adhesive

Meets or exceeds ANSI A136.1, Type 1 requirements



DESCRIPTION

Natural-Stone & Marble Adhesive is a high-performance, nonflammable, acrylic latex adhesive for interior installations of marble, natural-stone, ceramic, and porcelain floor and wall tile. Its fast-grabbing, nonslip formula simplifies vertical installation of tiles.

USES

- For interior installations of marble and natural-stone tile up to 12" x 12" (30 x 30 cm) on walls and up to 6" x 6" (15 x 15 cm) on countertops and floors (light-duty residential traffic only)
- For interior installations of ceramic and porcelain tile up to 12" x 12" (30 x 30 cm) on walls and up to 6" x 6" (15 x 15 cm) on countertops and floors (light-duty residential traffic only)
- *Natural-Stone & Marble Adhesive* is recommended in dry or intermittent wet conditions such as countertops, backsplashes, tub surrounds and shower surrounds (walls only) over a pre-fabricated shower pan, where service requirements do not exceed ANSI A136.1, Type I. Cementitious adhesives are recommended for tiles adjoining submergible areas.

RECOMMENDED SUBSTRATES

- Fully cured concrete (at least 28 days)
- Masonry block
- Cement mortars and leveling coats
- Cement backer units (see manufacturer's instructions for approval)
- Gypsum wallboard – interior walls in dry areas only (to improve adhesion, prime with *Planicrete® AC*)
- APA or COFI Group 1 exterior-grade plywood (interior residential floors and countertops in dry areas)

TECHNICAL NOTES

- Do not use for exterior applications, immersion environments, steam showers, steam rooms or shower floors.
- Do not apply over waterproofing membranes, radiant- or thermal-heated subfloor systems, gypsum-based patching or leveling compounds, sheet vinyl, vinyl asbestos tile (VAT), vinyl composition tile (VCT), existing ceramic, porcelain or natural stone, self-stick tile, laminate surfaces, fiberglass surfaces, poured epoxy floors, hardwood flooring, presswood, particleboard, chipboard, oriented strand board (OSB), Masonite, Luan, gypsum floor-patching compounds, metal or similar dimensionally unstable substrates.

- Do not use for the installation of glass tiles; granite; Rosso Levanto, Negro Marquina or green marble tiles or their agglomerates; or other tiles with known dimensional instability when exposed to water-based setting materials.
- Do not use for setting bathroom fixtures or grab bars.
- Do not use as a thick-bed mortar, concrete repair mortar, concrete patching material or skim-coating compound, or use to level subfloors.
- Do not use in areas subject to temperatures above 140°F (60°C).
- Do not use on floors or for other heavy-duty commercial applications.

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

INSTRUCTIONS

1. Surface Preparation

- 1.1 All surfaces must be structurally sound, solid, well-fastened, dry, clean and free of dust, oil, grease, wax, curing agents, sealers, adhesive residue and any other substance that could weaken the adhesive's bond to the substrate. Painted surfaces must be sanded or scarified.
- 1.2 MAPEI also recommends priming gypsum drywall before mastic applications. This dramatically enhances the adhesion between the tile, adhesive, paper and gypsum board. Use *Planicrete® AC* diluted 1-to-1 with water.
- 1.3 The supporting surface over which natural stone will be applied should have a deflection no greater than $L/720$ of the span when measured under 300 lbs. (136 kg) of concentrated load (see ASTM C627). Ceramic and porcelain tile installations require a deflection no greater than $L/360$.
- 1.4 Do not install in temperatures below 50°F (10°C) or above 95°F (35°C).

Note: For details on MAPEI requirements, see the "Surface Preparation Requirements" document at www.mapei.com.

2. Mixing

Natural-Stone & Marble Adhesive is ready to use. No mixing is required. If material is frozen, do not stir it until it has returned to room temperature.

3. Application

- 3.1 Select a typical notched trowel (see chart) with sufficient depth for at least 80% transfer of adhesive to the back of the tile. Trowel selection will vary depending on the tile size and thickness as well as the substrate profile.
- 3.2 Key adhesive into the substrate with the trowel's flat side. This ensures complete contact with the substrate.
- 3.3 Comb adhesive in a single direction. Troweling in a "swirl" pattern is not recommended.
- 3.4 Spread only as much adhesive as can be tiled within 30 minutes. Any adhesive that has "skinned" over should be scraped off and replaced with fresh material.
- 3.5 Place tiles firmly into the fresh adhesive with a slight twisting motion to ensure a positive bond.
- 3.6 Make alignments or adjustments immediately, within 30 minutes.
- 3.7 Remove excess adhesive from joint areas so that at least 2/3 of the tile depth remains available for grouting.
- 3.8 Ensure that proper contact is being achieved between the tile and substrate by occasionally removing a few tiles and checking for acceptable coverage as described in Section 3.1.

4. Cleaning

- 4.1 Remove any excess adhesive from the tile surface while the material is still fresh. Use a damp sponge with clean, warm water. A light-duty Scotchbrite® scrub pad also may be used if necessary.
- 4.2 Clean hands and tools while the adhesive is still fresh. Use a damp sponge or a stiff nylon brush with warm water.
- 4.3 If adhesive has dried on the surface or tools, use mineral spirits.

5. Grouting

- 5.1 Grouting should only begin after the tiles are firmly set and the adhesive has completely dried. Less porous tiles or substrates, lower room or substrate temperatures, higher humidity and larger tiles will extend drying times. Walls may generally be grouted the day following installation; floors may generally be grouted after 48 hours, depending on the tile to be installed. Keep the area dry and well-ventilated to help speed the drying process.
- 5.2 Grout joints with the appropriate MAPEI grout.

TECHNICAL DATA (based on 73°F [23°C] and 50% relative humidity)

References: Meets or exceeds ANSI A136.1, Type 1 requirements

Color	White
Consistency	Smooth paste
Storage	12 months when stored in a dry location, sealed in original containers at room temperature. Protect from freezing during transit and storage.
Application temperature range	50°F to 95°F (10°C to 35°C)
Open time	30 to 45 minutes
Adjustability	30 to 40 minutes
Ready for grouting	After 24 hours for walls and 48 hours for floors
Protect the finished installation from general foot traffic and impact	At least 72 hours
Cleanability	With water while fresh; with mineral spirits when dried
Health and safety	Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions.

PACKAGING

Pail: 1 U.S. gal. (3,79 L)

TYPICAL TROWELS AND APPROXIMATE COVERAGES* (per 1 U.S. gal. [3,79 L])

Ceramic, porcelain and natural-stone tile up to 6" x 6" (15 x 15 cm):

3/16" x 3/16" (4,5 x 4,5 mm) 40 to 60 sq. ft. (3,72 to 5,57 m²)

Ceramic, porcelain and natural-stone tile up to 12" x 12" (30 x 30 cm):

1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) 25 to 37 sq. ft. (2,32 to 3,44 m²)



* Trowel dimensions are width/depth/space. Coverages shown are given for estimating purposes only. Actual job-site coverage may vary according to the type of trowel used, substrate conditions and setting practices.

6. Protection

- 6.1 Because temperature and humidity (during and after installation of tile) affect the final curing time of all bonding materials, allow for extended periods of curing and protection when job-site temperatures drop below 60°F (16°C) and/or when relative humidity is higher than 70%.
- 6.2 Protect from freezing in transit and in storage.

7. Expansion and Control Joints

- 7.1 Provide for expansion and control joints where specified. Refer to the most recent TCA Detail EJ171 or TTMAC Specification Guide 09300, Detail 301EJ.
- 7.2 Do not span expansion or control joints with tile or stone.
- 7.3 Do not cover, bridge or fill any expansion or control joints with *Natural-Stone & Marble Adhesive*.
- 7.4 Install the specified compressible bead and sealant for expansion and control joints according to plans and specifications.

NOTICE

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.

MAPEI

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Additional Information

Website: www.mapei.com

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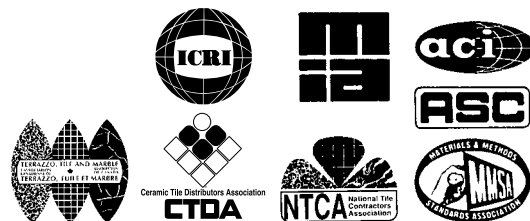
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