



AdesilexTM P10

Premium-grade
glass tile mortar



Meets or exceeds ANSI A118.4 industry standards when mixed with water



CLASSIFICATION IN COMPLIANCE WITH ISO 13007

When mixed with water, *Adesilex P10* is C2TE = improved (2) cementitious (C) adhesive with slip resistance (T) and extended (E) open time. When mixed with *Keraply*, *Adesilex P10* is also S1 = deformable (S1).

- Bright white
- Nonsag
- Polymer-modified mortar
- Enhances color of glass mosaic tiles

DESCRIPTION

Adesilex P10 is a premium-grade, bright white, multipurpose thin-set mortar formulated with nonsag properties. *Adesilex P10* is designed for glass tile, glass mosaic and marble mosaic.

USES

- For interior/exterior residential and commercial installations of tile on floors, walls and countertops in dry and wet conditions
- For installing glass tile, glass and marble mosaics, porcelain and ceramic tile, and most types of marble, granite and natural stone
- For vertical application of tile where nonslip performance is required

- For installations of swimming pools, spas, fountains, hot tubs and water features subject to continuous water immersion or extreme moisture conditions

RECOMMENDED SUBSTRATES

- Fully cured concrete (at least 28 days)
- Masonry block and brick
- Cement mortars and leveling coats
- Cement backer units (see manufacturer's instructions for approval)
- Gypsum wallboard (interior dry walls only)
- Interior installations over properly prepared, well-bonded unglazed tile and cement terrazzo when mixed with *Keraply*TM
- Properly prepared existing ceramic and porcelain tile, quarry tile and pavers when mixed with *Keraply*
- MAPEI's waterproofing and crack-isolation membranes over recommended substrates for those membranes when mixed with *Keraply*. Please consult the recommendations of the TCA (Tile Council of America) and the tile manufacturer regarding glass tile installations over these membranes.

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



TECHNICAL NOTES

- Consult the glass tile manufacturer's specifications to verify product suitability for specific installations and installation procedures.
- Installations of large-format tile over nonporous surfaces, such as waterproofing membranes and existing tile, require the addition of *Keraply*™ and may require extended setting times.
- Nonsag properties of *Adesilex P10* allow for setting glass or marble mosaic tiles and heavy tiles vertically from the top toward the bottom without using spacers.
- Installations of ceramic and porcelain tile require a substrate deflection rating of at least L/360. Glass- and stone-industry standards call for a substrate deflection rating of at least L/720.
- Consult MAPEI's Technical Services Department regarding applications of exterior building facades.
- Do not apply directly over gypsum-based patching or leveling compounds, plywood, vinyl asbestos tile (VAT), vinyl composition tile (VCT), vinyl sheet goods, cutback adhesive residue, laminate surfaces, self-stick tile, fiberglass surfaces, metal or poured epoxy floors.
- Do not use over hardwood flooring, presswood, particleboard, chipboard, oriented strand board (OSB), Masonite, Lauan plywood, pressure-treated or oil-treated plywood, or similar dimensionally unstable materials.
- Do not use as a thick-bed mortar, concrete repair mortar, concrete patching material or skim-coating compound, or to level subfloors.
- Do not install at temperatures below 50°F (10°C) or above 100°F (38°C).
- The Uniform Building Code requires mechanical fasteners for individual tiles larger than 720 sq. in. (0,46 m²) or weighing more than 15 lbs. (6,80 kg) per square foot (0,09 m²).
- Do not use for setting moisture-sensitive stone (green marble, limestone and some granites), cultured marble, agglomerate tiles or resin-backed tiles. Instead, use *Kerapoxy*®, *Kerapoxy 410* or *Planicrete*® W.
- Do not use for glass tile with a decorative coating on the tile backing. Instead, use white *Kerapoxy* for interior installations only.
- Do not use for setting glass tile larger than 6" x 6" (15 x 15 mm).

INSTRUCTIONS

1. Surface Preparation

- 1.1 All substrates should be structurally sound, solid, well-fastened, dry, clean and free of dust, oil, grease, paint, wax, curing agents, sealers, adhesive residue and any substance or condition that may reduce or prevent adhesion.

- 1.2 See MAPEI's "Surface Preparation Requirements" document for details.

2. Mixing

To achieve nonsag performance for *Adesilex P10*, use the recommended water/mix ratios (see "Mixing Ratios and Approximate Coverages" chart).

- 2.1 Into a clean mixing container, pour about 1.8 U.S. gals. (6,81 L) of cool, clean potable water or *Keraply*. Gradually add one 43-lb. (19,5 kg) bag of *Adesilex P10* powder while slowly mixing.
- 2.2 Use a low-speed mixing drill (at about 300 rpm) with an angled cross blade mixer or double box mixer. Mix thoroughly until mixture becomes a smooth, homogenous, lump-free paste. Avoid prolonged mixing.
- 2.3 Let mixture sit ("slake") for 5 to 10 minutes.
- 2.4 If mixture becomes heavy or stiff, remix without adding more liquid or powder.

3. Application

- 3.1 Pick a typical notched trowel (see "Technical Data" section) with enough depth for a continuous mortar thickness of 3/16" (4,5 mm) between the tile and the substrate. Glass-tile installations require 100% continuous coverage. For interior residential installations of tile and natural stone, mortar contact should be at least 85%. For commercial and exterior installations of tile and natural stone, apply a layer of setting material sufficient enough to achieve at least 95% mortar contact and a void-free solid support.
- 3.2 For best results, create a pressure-applied coat by using the trowel's flat side to key the mortar into the substrate.
- 3.3 Immediately add more mortar, combing it in a single direction with the trowel's notched side. Troweling in a "swirl" pattern is not recommended. For mosaics, knock down trowel ridges to ensure they will not show through translucent tiles. Back-buttering is required for all installations of larger glass or stone tiles.
- 3.4 Spread only as much mortar as can be tiled within 20 to 30 minutes – about 20 sq. ft. (1,86 m²) – or while mortar is still tacky. Open time will vary with job-site conditions.
- 3.5 Place the tiles firmly into the wet mortar. Push the tiles back and forth in a direction perpendicular to trowel lines, in order to collapse the mortar ridges and achieve maximum coverage. Ensure proper contact between mortar, tile and substrate by periodically lifting a few tiles to check for acceptable coverage.
- 3.6 For the installation of sheet-mounted glass and marble mosaics, after using light pressure to establish contact with the fresh mortar, tap lightly using a rubber-faced beating block and mallet.
- 3.7 Remove excess mortar from the joint areas so that at least 2/3 of the tile depth is available for grouting.

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

| | |
|------------------------------------|---|
| Dry solid content..... | 100% |
| Shelf life..... | 1 year in a dry place in original, unopened packaging |
| Colors..... | Bright white |
| Application temperature range..... | 50°F to 100°F (10°C to 38°C) |
| Pot life..... | 3 to 4 hours |
| Open time†..... | 25 to 35 minutes |
| Mixing ratio..... | See Section 2, "Mixing" |
| Consistency..... | Creamy paste |
| pH..... | 13 |
| Health and safety..... | Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions. |

† Open times vary based on temperature, humidity, substrate, trowel size and job-site conditions.

PACKAGING

Bag: 43 lbs. (19,5 kg)

MIXING RATIOS AND APPROXIMATE COVERAGES*(per 43 lbs. [19,5 kg] of Adesilex P10)

| TILE SIZE | TROWEL | MIX WITH | COVERAGE |
|---|--|--|--|
| Glass and marble mosaics | 1/8" x 3/16" x 1/8" (3 x 4,5 x 3)  | 1.8 U.S. gals. (6,81 L) of water or Keraply™ | 80 to 105 sq. ft. (7,43 to 9,75 m²) |
| Glass tile, wall tile, modular tile | 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)  | 1.8 U.S. gals. (6,81 L) of water or Keraply | 70 to 85 sq. ft. (6,50 to 7,90 m²) |
| Large modular ceramic tiles and stone – 8" x 8" (20 x 20 cm) up to 16" x 16" (41 x 41 cm) | 1/4" x 3/8" x 1/4" (6 x 10 x 6 mm)  | 1.8 U.S. gals. (6,81 L) of water or Keraply | 50 to 60 sq. ft. (4,65 to 5,57 m²) |

*Trowel dimensions are width/depth/space. Coverages shown are for estimating purposes only. Actual job-site coverages may vary according to substrate conditions, type of equipment used, thickness applied, handling and application procedures. To obtain stated coverage and nonsag performance, use the recommended water/mix ratios.

4. Expansion and Control Joints

- 4.1 Provide for expansion and control joints as specified per current TCA Detail EJ171 or TTMAC Specification Guide 09300 Detail 301MJ.
- 4.2 Do not cover expansion or control joints with tile or stone.
- 4.3 Do not cover, bridge or fill any expansion or control joints with Adesilex P10.
- 4.4 Insert the specified compressible bead and sealant for expansion and control joints, according to plans and specifications.

5. Cleaning

- 5.1 Remove any excess mortar from the tile surface while the mortar is fresh. Use a damp sponge with clean, cool water. A light-duty Scotchbrite® scrub pad also may be used if needed.

- 5.2 Tools should be cleaned as well while the mortar is fresh. Use a damp sponge or a stiff nylon brush with cool water.

6. Protection

- 6.1 Protect the finished installation from light traffic and impact for at least 24 to 48 hours, and from heavy traffic for at least 7 days.
- 6.2 Protect from rain at least 72 hours.
- 6.3 Protect from freezing for at least 5 to 7 days.
- 6.4 Glass tile installed in pool, spa and submerged applications require at least 21 days of curing time after grouting before the installation can be submerged or exposed to heavy water use.

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P10**

7. Grouting

Before grouting, allow 24 hours on floors and 8 hours on walls for tiles to reach a firm set at room temperature (73°F [23°C]). All glass-tile installations benefit from extended cure times (48 hours or longer) before grouting or permitting foot traffic. The setting time may be extended by cold temperatures or high humidity.

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

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For the most current
product data, visit
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