



# Keraply™

## Professional Latex Additive for Tile Mortar



### DESCRIPTION

*Keraply* is a professional-grade, acrylic latex admixture used to enhance the performance of dry-set mortars as well as *Adesilex™ P10* glass tile mortar. This highly recommended admixture enhances bond strength, flexural strength, elongation and freeze/thaw durability.

### FEATURES AND BENEFITS

- Improves bond strength of mortar
- Good for most difficult tiles and interior/exterior surfaces

### INDUSTRY STANDARDS AND APPROVALS

**ISO 13007:** See the Technical Data Sheet of the mortar that *Keraply* is mixed with

**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 Credit 4.1, Low-Emitting

Materials – Adhesives & Sealants..... 1 point

IEQ Credit 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.

### WHERE TO USE

- Interior/exterior residential and commercial installations
- Installation of ceramic and porcelain tile, quarry tile, pavers, Saltillo tile, and most types of marble, granite and natural stone

### LIMITATIONS

- Install only at temperatures between 40°F and 95°F (4°C and 35°C).
- Do not use for moisture-sensitive stone (green marble, some limestones and granites), agglomerate tiles, cultured marble or resin-backed tiles. Instead, use suitable epoxy or urethane adhesives (see respective Technical Data Sheet for more information).
- Use a white mortar when installing light-colored stones and translucent marble.
- Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), substrates containing asbestos, or metal.
- To use directly over gypsum-based patching or leveling substrates, apply suitable sealer before use. See MAPEI's Technical Bulletin 010506-TB, "Installing MAPEI Products over Gypsum."

### SUITABLE SUBSTRATES

- Concrete (cured at least 28 days)
- Masonry cement block, brick, cement mortar beds and leveling coats
- Cement backer units (CBU) – see manufacturer's installation guidelines
- APA and CANPLY Group 1 exterior-grade plywood (interior, residential and light commercial in dry conditions only)
- See the Technical Data Sheet of the mortar being used for a complete listing of suitable substrates.

## Product Performance Properties

See the Technical Data Sheet of the mortar being used for performance data.

## Shelf Life and Application Properties\*

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

Shelf life..... 2 years

## Packaging

Product Code	Size and Color
7033010	Jug: 2 U.S. gals. (7,57 L)
7030020	Pail: 5 U.S. gals. (18,9 L)
7030200	Drum: 55 U.S. gals. (208 L)

## 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 systems at [www.mapei.com](http://www.mapei.com).

## MIXING

Note: Choose all appropriate safety equipment before use. See Material Safety Data Sheet (MSDS) for details.

- Into a clean mixing container, pour about 2 U.S. gals. (7,57 L) of *Keraply*.
- Gradually add 50 lbs. (22,7 kg) of a dry-set mortar powder while slowly mixing.
- 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.
- Let mixture stand ("slake") for 10 minutes.
- Remix.
- If mixture becomes heavy or stiff, remix without adding more liquid or powder.

## PRODUCT APPLICATION

- Choose a typical notched trowel (see chart below) with sufficient depth to achieve > 80% mortar contact to both the tile and substrate for all interior applications, and > 95% for exterior installations, commercial floor and wet applications. It may be necessary to back-butter tiles in order to reach these requirements. (Refer to ANSI A108.5 specifications and TCA Handbook guidelines.)
- With pressure, apply a coat by using the trowel's flat side to key mortar into 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 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.
- 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, or TTMAC Specification Guide 09 30 00, Detail 301MJ. Do not cover expansion joints with mortars.

## CLEANUP

Clean tools and tile while mortar is fresh.

## PROTECTION

- Store and protect product from freezing.
- See the Technical Data Sheet of the mortar being used for additional instruction.

## RELATED DOCUMENTS

Reference Guide: Surface Preparation Requirements for tile and stone installation systems	RGT0309*
Technical Bulletin: Installing MAPEI Products over Gypsum	010506-TB*

\* At [www.mapei.com](http://www.mapei.com).

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.**

We proudly support the following industry organizations:



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For the most current **BEST-BACKED™** product data and warranty information, visit [www.mapei.com](http://www.mapei.com).

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