

Polymer Additive

Additive for Non-Polymer-Enriched and Select Mortars



DESCRIPTION

MAPEI's *Polymer Additive* is an acrylic latex admixture used to enhance the performance of dry-set mortars as well as *Mosaic & Glass Tile Mortar*. This highly recommended admixture enhances bond strength, flexural strength and freeze/thaw durability.

FEATURES AND BENEFITS (when used instead of water to mix with mortar)

- For mixing with MAPEI's *Floor Tile Mortar*, *Mosaic & Glass Tile Mortar* or *Uncoupling Membrane Mortar*
- Improves bond strength of mortar
- Enhances mortar performance and allows use with a wider range of tile and stone over additional substrates
- Good for most difficult-to-bond tiles and interior/exterior surfaces
- When a dry-set mortar is mixed with *Polymer Additive* rather than with water, the mixture is ideal for setting tile in areas subject to severe climate swings (ranging from high to below-freezing temperatures, and from dry to wet conditions).

SUITABLE TILE OR STONE

- See the Technical Data Sheet (TDS) of the mortar being used for a complete listing of suitable tile and stone and recommended tile sizes.

SUITABLE SUBSTRATES

- Concrete (cured for at least 28 days)
- Masonry cement block, brick, cement mortar beds, render coats and leveling coats
- Cement backer units (CBUs) – see manufacturer's installation guidelines (interior only)
- Plywood underlayments must be a Group 1 exterior-grade plywood CC-plugged or better, conforming to APA classification and U.S. Product Standard PS 1-95 or a "SELECT" or (SEL-TF) CANPLY classified exterior-grade plywood conforming to CSA-0121 standard for Douglas fir for direct-bond applications (interior, residential and light-commercial floors and countertops in dry conditions only).
- See the TDS of the mortar being used for a complete listing of suitable substrates.

WHERE TO USE

- Mix with *Floor Tile Mortar* to install tile on cement board and plywood.
- Mix with *Mosaic & Glass Tile Mortar* to install submerged tile.
- Mix with *Uncoupling Membrane Mortar* to install porcelain tile.
- Mix with *Uncoupling Membrane Mortar* to install on plywood.
- Mix with *Uncoupling Membrane Mortar* to install on MAPEI waterproofing, crack-isolation, sound-reduction and uncoupling membranes.
- See the TDS of the mortar being used for details about where to use.

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 limestone and granite), agglomerate tiles or resin-backed tiles. Instead, use suitable epoxy or urethane adhesives (see respective TDSs for details).
- For light-colored and translucent natural stone, a white mortar is recommended.
- 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 a suitable sealer/primer before use. See the technical bulletin "Tiling over gypsum" in the Tile & Stone Installation Systems section of MAPEI's Website.
- Do not dilute with any other liquids.
- Do not freeze.
- See the TDS of the mortar being used for additional information.

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 the "Surface Preparation Requirements" reference guide in the Tile & Stone Installation section of MAPEI's Website.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. Always use a clean mixing container.
2. Shake the *Polymer Additive* container well before use.
3. See the respective TDS for the mortar being used for detailed mixing instructions.

PRODUCT APPLICATION

- See the respective mortar's TDS for detailed instructions.

EXPANSION AND CONTROL JOINTS

- Provide for expansion and control joints as specified per TCNA Method EJ171 or TTMAC Specification Guide 09 30 00, Detail 301MJ. Do not cover expansion joints with mortar.

PROTECTION

- Protect from traffic for 24 to 48 hours, so that the mortar is sufficiently set.
- Protect the installation from rain for 72 hours, and from freezing for 21 days.
- See the TDS of the mortar being used for additional information.

CLEANUP

- Clean tools and tile while the mortar is fresh using only water

Product Performance Properties

See the TDS of the mortar being used for performance data.

Shelf Life and Product Characteristics

before mixing

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Physical state	Liquid latex
VOC content (SCAQMD Rule 1168)	< 65 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	1 g per L

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Packaging

Size
Jug: 2 U.S. gals. (7.57 L)

RELATED DOCUMENTS

- Reference guide: "Surface preparation requirements" for tile and stone installation systems*
- Technical bulletin: "Tiling over gypsum"*
- Technical bulletin: "Installing large-format, opaque glass tiles"*

*At www.mapei.com

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (SDS) for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **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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For the most current product data and BEST-BACKEDSM warranty information,
visit www.mapei.com.
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