



MagniFlex™ 8810

Floor and Wall Tile Mortar

Meets ANSI A118.1 requirements when mixed with water.

Product Description

MagniFlex 8810 is a single-component, polymer-modified, dry-set mortar for installing vitreous (low-absorption) porcelain, ceramic, paver and quarry tiles as well as traditional nonvitreous tiles.

Features

- For setting floor and wall tile.
- No soaking of tiles required.
- Mix with water only.

Uses

- For use over interior residential and commercial concrete floors (and walls and countertops made of cement backer units) in dry areas. Mix with water only.
- Use when the substrate temperature is between 4°C (40°F) and 35°C (95°F).
- When installing light-colored or translucent tile or stone, use a white Chembond mortar.
- Do not use over plywood, presswood, oriented strand board (OSB), particleboard, chipboard, Masonite, Lauan, gypsum floor-patching compounds, metal or similar dimensionally unstable material.
- Do not use on projects subject to prolonged water immersion or temperature extremes.
- Do not use to set moisture-sensitive natural stone such as green marble, green granite or their agglomerates, or for Rosso Levanto or Negro Marquina marble.

Substrate Requirements

All surfaces must be structurally sound, level and clean of all substances that can weaken the adhesive's bond to the substrate. These include, but are not limited to, concrete sealers and curing agents, existing adhesive, dirt, wax, tar, paint and loose toppings. If the surface contains these substances, they must be mechanically removed. The use of solvents and acid etching is not recommended.

TECHNICAL QUICK REFERENCE

Recommended Trowel Sizes and Approximate Coverages*

Based on 22,7-kg (50-lb.) bag

6 x 6 x 6 mm (1/4" x 1/4" x 1/4")		6,97 to 8,36 m ² (75 to 90 ft. ²)
6 x 10 x 6 mm (1/4" x 3/8" x 1/4")		5,11 to 6,04 m ² (55 to 65 ft. ²)

* Coverages are for estimating purposes only. Actual coverage may vary according to substrate conditions, trowel used and setting practices. To ensure adequate contact, proper trowel selection is mandatory (see "Application").

Product Characteristics (at 23°C [73°F])

Pot life.....	About 4 hours
Open time.....	15 minutes
Adjustability	45 minutes
Initial set (before grouting)	16 to 24 hours
Final set (before light traffic)	24 to 36 hours after grouting
Final set (before heavy traffic)	7 days

Shear strength per ANSI A118.4 tests (at 28 days):

Impervious mosaics	2,19 MPa (317 psi)
Quarry tile to quarry tile	2,26 MPa (327 psi)

Packaging	Bag: 22,7 kg (50 lbs.)
Color	Gray
Shelf life	12 months when stored in a dry area at room temperature
Cleanup.....	With clean water while fresh
Health and safety	Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions.

We proudly support the following industry organization:



Approved Substrates Properly Prepared

(see “Substrate Requirement for Tile” document for preparation details)

- Fully cured concrete (at least 28 days old).
- Cement backer units.

Note: Consult Technical Services (1-888-243-6263) for installation recommendations regarding substrates and conditions not listed.

Mixing (for a 22,7-kg [50-lb.] bag)

1. Mix only as much *MagniFlex™ 8810* as can be used in 4 hours.
2. Add 5,38 L (1.42 U.S. gals.) of clean water to a clean mixing container.
3. Gradually add 22,7 kg (50 lbs.) of *MagniFlex 8810* powder while slowly mixing (at 300 rpm or less).
4. Mix thoroughly to a homogenous and smooth consistency.
5. Wait 10 to 15 minutes.
6. Remix without adding more powder or water.
7. Clean hands and tools with water.

Application

1. Pick a notched trowel (see chart) with enough depth to achieve at least 80% contact of *MagniFlex 8810* to the back of the tile or stone. Trowel selection depends on tile size, tile thickness and substrate condition.
2. Apply a thin coat of *MagniFlex 8810* into substrate with trowel’s flat side.
3. Apply second coat of *MagniFlex 8810* and use trowel’s notched side to comb *MagniFlex 8810* in one direction for an even-setting bed. (Troweling in a “swirl” pattern is not recommended.)
4. Spread only as much *MagniFlex 8810* as can be covered with tile in 15 minutes. Any *MagniFlex 8810* that has “skinned over” should be removed and replaced with fresh material.
5. For commercial as well as marble, granite and other natural-stone installations, achieve at least 95% mortar contact in accordance with applicable ANSI specifications and TTMAC guidelines.
6. Place tile into the wet *MagniFlex 8810* with a slight twisting motion to ensure good contact.
7. Follow immediately with thorough beat-in to flatten ridges and embed tile at least 25% into a continuous bed.
8. Clean hands and tools with water.

Expansion and Control Joints

1. Provide for expansion and control joints where specified as per TTMAC Detail 301-MJ.
2. Do not cover or bridge any expansion joints with *MagniFlex 8810* or surfacing material.
3. Cut tiles on both sides along the edges of expansion joints.
4. Protect tilework with metal strips along both edges of structural building expansion joints.
5. Install the specified compressible bead and sealant in all expansion and control joints.

Grouting

Allow tiles to reach initial set (about 16 to 24 hours after installation) before walking on or grouting (with appropriate Chembond grout). At cooler floor temperatures, a longer set time may be required before grouting.

Protection

1. Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.
2. Floors: Protect from light foot traffic for at least 24 to 36 hours after grouting. Prohibit heavy commercial traffic and equipment for 7 days.
3. Walls: Protect from impact, vibration and heavy hammering on adjacent or opposite walls for at least 14 days after installation.
4. Because temperature and humidity (during and after tile installation) affect the curing time of bonding materials, allow extra time for curing and protection when job-site temperatures drop below 4°C (40°F) and/or when relative humidity is above 70%. Avoid freezing.

Important 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.

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