



## MagniFlex™ Ultimate 8830

### High-Performance, Polymer-Modified Floor and Wall Tile Mortar

Meets or exceeds ANSI A118.4 and ANSI A118.11 requirements

#### Product Description

*MagniFlex Ultimate 8830* is a high-performance, polymer-modified, single-component, thin-set mortar for setting ceramic tile and dimension stone.

#### Features

- Enhanced, polymer-modified.
- For setting floor and wall tile.
- Mix with water only.

#### Uses

- For residential (interior floors, countertops and walls; and exterior floors and walls) and commercial (interior floors and walls; and exterior floor) installation of dimension stone, ceramic, porcelain and quarry tile over most traditional, well-prepared, nondeflecting substrates.
- Use when substrate temperature is between 4°C to 35°C (40°F to 95°F).
- When installing light-colored stones or translucent marble, use white *MagniFlex Ultimate 8830*.
- Do not use over presswood, oriented strand board (OSB), particleboard, chipboard, Masonite, Lauan, gypsum floor-patching compounds, metal or similar dimensionally unstable substrates.
- Do not use for installations subject to prolonged water immersion (e.g., pools, fountains, showers, hot tubs and steam rooms).
- Do not use for setting moisture-sensitive natural stone such as green marble, green granite or their agglomerates, or for Rosso Levanto or Negro Marquina marble.
- Do not use on exterior commercial-building facades such as shopping malls, office buildings or high-rise residential units.

#### Substrate Requirements

All surfaces must be structurally sound, level and clean of all substances that can impair the adhesive's bond to the substrate. These substances include, but are not limited to, concrete sealers and curing agents, existing adhesives, dirt, wax, tar, paint and loose

### 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<sup>2</sup>  
(75 to 90 ft.<sup>2</sup>)

6 x 10 x 6 mm  
(1/4" x 3/8" x 1/4")



5,11 to 6,04 m<sup>2</sup>  
(55 to 65 ft.<sup>2</sup>)

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

#### Product Characteristics at 23°C (73°F)

Pot life.....	About 2 hours
Open time.....	Up to 20 minutes
Adjustability .....	20 minutes
Initial set (before grouting) .....	About 16 to 24 hours
Final set (before general foot traffic).....	72 hours after grouting
Final set (before heavy traffic).....	7 days

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

Ceramic mosaic .....	2,24 MPa (325 psi)
Quarry tile to quarry tile .....	2,41 MPa (350 psi)
Quarry tile to plywood.....	1,55 MPa (225 psi)

Packaging .....	22,7-kg (50-lb.) bag
Colors .....	Gray and white
Shelf life .....	12 months when stored in a dry, heated area. Protect from moisture.
Cleanup.....	With clean water while fresh
Health and safety .....	Consult the Material Safety Data Sheet (MSDS) for more information

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toppings. If the surface contains these substances, they must be mechanically removed. The use of solvents, adhesive removers and acid etching is not recommended.

### Approved Substrates Properly Prepared

(see “Substrate Requirements For Tile” document for preparation details):

- Fully cured concrete (at least 28 days old).
- Masonry block.
- Concrete mortars and leveling coats.
- Properly prepared Group 1, CC or better, exterior-grade plywood (interior residential floors and countertops in dry areas only).
- Gypsum plaster and gypsum wallboard (on properly primed walls only).
- Cement backer units.
- Interior installations over properly prepared and well-bonded unglazed tile, cement terrazzo, vinyl composition tile (VCT), vinyl asbestos tile (VAT) and cutback adhesive residue.

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

### Mixing

1. Mix only as much *MagniFlex™ Ultimate 8830* as can be used in 2 hours.
2. Add 5,68 L (1.5 U.S. gals.) clean water into a clean container.
3. Gradually add 22,7 kg (50 lbs.) of *MagniFlex Ultimate 8830* while slowly mixing (at about 300 rpm).
4. Mix thoroughly to a smooth consistency.
5. Wait 10 to 15 minutes.
6. Remix without adding more water or powder.
7. If stiffening occurs before all material is used (in about 2 hours), remix by hand or machine, but do not add more water.
8. Wash tools and hands with water.

### Application

1. Pick trowel (see chart) deep enough for at least 85% contact of *MagniFlex Ultimate 8830* to tile backs for interior applications, 95% for exterior applications.
2. Apply a thin coat of *MagniFlex Ultimate 8830* onto substrate with the trowel’s flat side.
3. Apply second coat and use trowel’s notched side to comb *MagniFlex Ultimate 8830* in a single direction for an even-setting bed.
4. Do not spread more material than can be covered with tile within 20 minutes (about 1,86 m<sup>2</sup> [20 ft<sup>2</sup>]).

5. Before *MagniFlex Ultimate 8830* surface “skins over” on substrate, place tiles firmly into position with a slight twisting motion to ensure good contact with *MagniFlex Ultimate 8830*. Remove any skinned-over *MagniFlex Ultimate 8830* and replace with fresh material.
6. Follow immediately with thorough beat-in to flatten ridges or notches into a continuous bed. Allow at least 25% of tile thickness to be embedded into *MagniFlex Ultimate 8830*.
7. Make alignments and adjustments within 20 minutes of beat-in procedure.
8. Clean tile surface with damp towel.
9. Do not disturb grout or walk on tiles for at least 24 hours after installation.
10. Wash tools and hands with water.

### Expansion and Control Joints

1. Provide for expansion and control joints within the tile work where specified or where necessary. Refer to TTMAC handbook.
2. Do not cover any expansion joints with *MagniFlex Ultimate 8830*.
3. Cut tiles on both sides along the edges of expansion joints or control joints.
4. Protect tilework with metal strips along both edges of structural building expansion joints.
5. Install specified compressible bead and sealant in all expansion and control joints.

### Grouting

Allow tile to reach initial set (about 16 to 24 hours) before grouting with appropriate Chembond® grout.

### Protection

1. Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.
2. Floors: Keep from general traffic for a minimum of 72 hours after installation. Plywood or stepping boards may be used after 24 hours when occasional stepping on the floor is unavoidable.
3. Walls: Protect from impact, vibration and heavy hammering on adjacent and opposite walls for at least 14 days after installation.

### 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.*

#### CONTACT US

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