



MagniFlex™ QS 8860

High-Performance,
Polymer-Modified, Quick-Set
Floor and Wall Tile Mortar

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

Product Description

MagniFlex QS 8860 is a single-component, high-performance, polymer-modified quick-set mortar for installing ceramic tile and dimension stone.

Features

- Mix with water only.
- Allows grouting of tile 2-1/2 hours after installation.

Uses

- For installing vitreous, semivitreous and nonvitreous ceramic tile and impervious ceramic mosaics on residential interior floors, walls and countertops; residential exterior floors and walls; and commercial interior floors and walls.
- For fast retiling of floors and walls (in supermarkets, factories, hospitals, airports, shopping malls, etc.) that must be ready for use in a short time.
- For installations over vinyl asbestos tile (VAT), vinyl composition tile (VCT), cutback adhesive residue, noncushioned sheet vinyl and plastic laminate countertops.
- Use when substrate temperature is between 4°C and 35°C (40°F and 95°F).
- When installing light-colored stone and translucent marble, use a white rapid-set material.
- Do not use for commercial exterior installations.
- Do not use over presswood, oriented strand board (OSB), particleboard, chipboard, Masonite, Luan, gypsum floor-patching compounds, metal or similar dimensionally unstable substrates.
- Do not use for installations subject to prolonged water immersion (such as pools, fountains, gang showers and hot tubs).
- 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.

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 include, but are not limited to, concrete sealers or curing agents, existing adhesive, dirt,

TECHNICAL QUICK REFERENCE

Typical Trowel Sizes and Approximate Coverages*



6 x 6 x 6 mm (1/4" x 1/4" x 1/4")

Based on 11,3 -kg (25-lb.) bag
3,25 to 4,18 m² (35 to 45 ft²)

Based on 22,7-kg (50-lb.) bag
6,50 to 8,36 m² (70 to 90 ft²)



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

Based on 11,3-kg (25-lb.) bag
2,32 to 2,97 m² (25 to 32 ft²)

Based on 22,7-kg (50-lb.) bag
4,65 to 6,04 m² (50 to 65 ft²)

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

Product Characteristics at 23°C (73°F)

Pot life	About 30 minutes
Open time	Up to 20 minutes
Adjustability.....	20 to 30 minutes
Initial set	1 hour, 10 minutes
Final set	1 hour, 30 minutes
Ready for grout	After 2-1/2 hours
Ready for general foot traffic	After 6 hours
Ready for heavy traffic	After 24 hours

Shear strength per ANSI A118.4 tests

	4 hours	1 day	7 days	28 days
Ceramic mosaic	1,52 MPa (221 psi)	2,59 MPa (375 psi)	3,59 MPa (520 psi)	4,66 MPa (675 psi)
Quarry tile to plywood	N/A	N/A	1,53 MPa (222 psi)	2,26 MPa (327 psi)
Quarry tile to quarry tile	2,07 MPa (300 psi)	2,93 MPa (425 psi)	3,76 MPa (545 psi)	3,79 MPa (550 psi)

Packaging	Bags: 11,3 kg (25 lbs.), 22,7 kg (50 lbs.)
Color	Grey
Shelf life	1 year when stored in a dry location in sealed original containers at room temperature. Protect from moisture.
Cleanup	With clean water while fresh
Health and safety.....	Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions.

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wax, tar, paint and loose 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 Ceramic Tile" document for preparation details)

- Fully cured concrete (at least 28 days old).
- Concrete and masonry block.
- Properly prepared Group 1 exterior-grade plywood (interior residential floors and countertops in dry areas only).
- Gypsum drywall panels (in dry areas only).
- Cement backer units.
- Interior installations over properly prepared and well-bonded unglazed tile, old cement terrazzo, VCT, VAT, cutback adhesive residue, plastic laminate countertops and noncushioned sheet vinyl.

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

Mixing

1. Mix only as much *MagniFlex™ QS 8860* as can be used in 30 minutes. Set time depends on temperature and humidity.

For a 11,3-kg (25-lb.) bag:

2. Add 2,37 to 2,84 L (2.5 to 3 U.S. qts.) of clean, cold water into a clean container.
3. Gradually add 11,3 kg (25 lbs.) of *MagniFlex QS 8860* while slowly mixing (at no more than 300 rpm). Go to Step 4.

For 22,7-kg (50-lb.) bag:

2. Add 4,73 to 5,69 L (1.25 to 1.5 U.S. gals.) of clean, cold water into a clean container.
3. Gradually add 22,7 kg (50 lbs.) of *MagniFlex QS 8860* while slowly mixing (at no more than 300 rpm).
4. Mix thoroughly to a smooth consistency.
5. Do not slake. Spread immediately.
6. Wash hands and tools with water immediately after mixing.

Application

1. Pick a notched trowel (see chart) with enough depth to achieve at least 80% contact of *MagniFlex QS 8860* to the back of tile for all interior applications. For exterior residential installations, interior commercial floor applications and when installing marble, granite and agglomerate tile floors, achieve coverage in accordance with applicable ANSI specifications.
2. Apply a thin coat of *MagniFlex QS 8860* into substrate with the trowel's flat side.
3. Apply second coat and use trowel's notched side to comb *MagniFlex QS 8860* 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 m² [20 ft²]).
5. Do not soak tiles before installation.
6. Before *MagniFlex QS 8860* surface "skins over" on substrate, place tiles firmly into position with a slight twisting motion to ensure good contact with material.

Remove any skinned-over *MagniFlex QS 8860* and replace with fresh material.

7. 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 the *MagniFlex QS 8860*.
8. Make alignments and adjustments within 20 to 30 minutes of beat-in procedure.
9. Clean tile surface with damp towel before material hardens.
10. Leave at least 2/3 of the joint depth open for grouting.
11. Wash hands and tools with water while material is still fresh.

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 QS 8860*.
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

Do not disturb, grout or walk over tiles for at least 2-1/2 hours after installation.

Protection

1. Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.
2. Protect finished tilework against weather, freezing and exposure to water for at least 7 days after completion of work.
3. Floors: Protect from general traffic for at least 6 hours after installation. Prohibit heavy traffic for at least 24 hours after installation.
4. Walls: Protect from impact, vibration and heavy hammering on adjacent and opposite wall for at least 72 hours after installation.
5. Because temperature and humidity (during and after installation of tile) affect the final curing time of all cement-based and epoxy materials, allow for extended periods of cure and protection when temperatures drop below 16°C (60°F) and/or when the relative humidity is higher than 70%.

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 SREASONABLY SHOULD HAVE BEEN, DISCOVERED.**

For the most up-to-date information on this product, visit www.chembond.com.

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