



CHEMLASTIC™ 7400

Latex Additive for Dry-Set Mortar

Meets or exceeds ANSI A118.4 requirements when mixed with Chembond's *FloorBond™ 8400*

Product Description

Chemlastic 7400 is an acrylic latex additive that forms high-strength bonds to ceramic tiles when mixed with factory-prepared dry-set mortars such as *FloorBond 8400*.

Features

- Develops high-strength bond between tile and substrate.
- Improves freeze/thaw resistance between tile and substrate.

Uses (when mixed with factory-prepared dry-set mortars such as *FloorBond 8400*)

- For residential interior and exterior floor and countertop tile installation.
- For installing ceramic, porcelain, mosaic, glass and quarry tiles; pavers; slate; marble; and granite.
- When installing white, light-coloured and translucent marble and their agglomerates, use white *FloorBond 8400*.
- Exterior-grade plywood, as described under the "Approved Substrates Properly Prepared" section, is acceptable as a substrate only when used in a dry area for residential-duty floor or countertop installation.

Do not apply over single-layer wood floors. (See "Substrate Requirements for Tile" document.)

- Do not use when the ambient and/or substrate temperature is below 4°C (40°F).
- Do not use on walls or vertical surfaces.
- Do not use over presswood, oriented strand board (OSB), particleboard, chipboard, Masonite, Lauan, gypsum floor-patching or gypsum leveling compounds, metal or other dimensionally unstable materials.

Technical Quick Reference

(when mixed with *FloorBond 8400*)

Approximate Coverage and Typical Trowels*

Per 7,57 L (2 U.S. gals.) mixed with 22,7 kg (50 lbs.) of *FloorBond 8400*

6 x 6 x 6 mm (1/4" x 1/4" x 1/4")	6,50 to 8,36 m ² (70 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)

* Coverage is for estimating purposes only. Actual coverage may vary according to substrate conditions, trowel used and setting practices.

Product Characteristics

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

Pot life.....	About 4 hours
Open time.....	30 minutes
Adjustability.....	30 to 45 minutes
Initial set (before grouting)...	24 hours
Final set.....	72 hours after installation
Freeze/thaw-stable.....	Down to -18°C (0°F)
Shear strength per ANSI A118.4 tests	
Nonvitreous tiles	2,24 MPa (325 psi)
Vitrous tiles.....	1,79 MPa (260 psi)
Shear strength over plywood	1,03 MPa (150 psi)
Packaging.....	7,57 L (2 U.S. gals.)
Colour.....	Milky white
Shelf life.....	2 years in original, unopened packaging. Protect from moisture, freezing and excessive heat.
Cleanup.....	With clean water while fresh
Health and safety	Consult the Safety Data Sheet for safe-handling instructions.

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- Do not use on exterior building facades.
- Do not use for installations subject to continuous water immersion (such as pools, fountains and hot tubs).
- Do not use for setting moisture-sensitive natural stone (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 or curing agents, existing adhesive, dirt, wax, tar, paint and loose toppings. If the surface contains these substances, they must be mechanically removed.

Approved Substrates Properly Prepared (see "Substrate Requirements for Tile" document for preparation details)

- Fully cured concrete floors (at least 28 days old).
- Cement backer units (floors or countertops in dry areas only).
- Cement mortars and cement leveling coats.
- Properly prepared, existing terrazzo floors, unglazed ceramic tile and paving brick.
- COFI-classified SELECT or (SEL-TF) exterior-grade plywood conforming to the CSA-0121 standard for Douglas fir (interior residential floors and countertops in dry areas only). See ANSI AN-3.4.3 "Requirements for Carpentry" guidelines
- Maximum substrate deflection must not exceed L/360 under live and dead loads.

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

Mixing (with a 22,7-kg [50-lb.] bag of factory-prepared dry-set mortar such as *FloorBond 8400*)

1. Mix only as much *Chemlastic 7400* together with a dry-set mortar as can be used in 4 hours.
2. Add 7,57 L (2 U.S. gals.) of *Chemlastic 7400* to a clean mixing container.
3. Gradually add 22,7 kg (50 lbs.) of dry-set mortar while slowly mixing (at 300 rpm or less).
4. Mix thoroughly to a homogenous and smooth consistency. (Avoid prolonged mixing, which will trap air and shorten pot life.)
5. Wait 10 to 15 minutes.
6. Remix without adding more powder or water.
7. Some stiffening may occur before all material is used (about 1-1/2 to 2 hours). If so, stir by hand or machine, but do not add any more water.
8. Wash hands and tools with water.

Application

1. Pick a notched trowel (see chart) with enough depth to achieve a continuous mortar thickness of 3 mm to 10 mm (1/8" to 3/8") between the tile and substrate (85% minimum for all interior residential applications, 95% for commercial or exterior applications, and 100% for natural stone). Trowel selection depends on tile size, tile thickness and substrate condition.
2. Apply a thin coat of mortar into the substrate with the trowel's flat side.
3. Apply a second coat of mortar immediately thereafter, and then use the trowel's notched side to comb mortar in a single direction for an even-setting bed. (Troweling in a "swirl" pattern is not recommended.)
4. Spread only as much mortar as can be covered with tile in 15 to 20 minutes (about 1,86 m² [20 ft.²]).
5. In hot or dry conditions, ensure that mortar does not flash-set. Cooling a concrete substrate with water before installation may be beneficial, but remove all excess water before applying mortar. Cooling *Chemlastic 7400* will assist with the installation. Any mortar that has "skinned over" should be removed and replaced with fresh material.
6. Do not soak tiles before installation.

7. Place tile into the wet mortar with a slight twisting motion to ensure good contact.
8. Follow immediately with thorough beat-in to flatten ridges and embed tiles at least 1/3 of their thickness into a continuous bed. Check pieces periodically to ensure sufficient mortar contact with the reverse side of tile.
9. Make alignments and adjustments no later than 30 to 45 minutes after beat-in.
10. Clean joints and tile face with damp towel before material hardens.
11. Wash hands and tools with water.

Expansion and Control Joints

- Provide for expansion and control joints where specified.
- Do not cover or bridge any expansion joints with mortar or surfacing material.
- Cut tiles on both sides along the edges of expansion joints.
- Protect tilework with metal strips along both edges of structural building expansion joints.
- Install the specified compressible bead and sealant in all expansion and control joints.

Grouting

- Do not disturb, grout (with an appropriate Chembond grout) or walk over tiles for at least 24 hours after installation.

Protection

- Protect containers from freezing in transit and storage. Protect from prolonged exposure to deep freezing. If *Chemlastic 7400* is frozen, do not stir it until the product is completely thawed.
- Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.
- Protect tilework from adverse weather, freezing, and continuous-water conditions or immersion during installation and for at least 21 days after completion of the tilework.

- **Floors:** Protect from general traffic for at least 72 hours after installation. Stepping boards may be used after 24 hours when occasional stepping on the floor is unavoidable.
- **Walls:** Protect from impact, vibrations and heavy hammering on adjacent and opposite walls for at least 14 days after installation.
- Because temperature and humidity (during and after installation of tile) affect the curing time of cement-based materials, allow extra time for curing and protection when job-site temperatures drop below 16°C (60°F) and/or when relative humidity is higher than 70%.

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support the
following
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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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