



FLEX PRO

TECHNICAL DATA SHEET



Masterformat: 09 30 00

Updated: February, 2024.

PRODUCT DESCRIPTION

Crafted with the finest ingredients, FLEX PRO, a premium, polymer-modified tile adhesive thin-set mortar, offers unparalleled bond strength and workability. FLEX PRO's polymer-modified formula provides a creamy, flexible solution that ensures a secure and long-lasting bond for your ceramic, porcelain, glass, and natural stone tiles installed over even the most challenging surfaces, including plywood subfloors and existing tiles. So, if you're seeking a tile adhesive that delivers exceptional quality, strength, and value, FLEX PRO is your answer. Experience the difference that premium ingredients and expert craftsmanship can make in your next tile project.

Available in Gray and White 50 Lb. bags

INDUSTRY STANDARDS AND APPROVALS

ANSI: ANSI A118.4, A118.11
VOC: SCS Indoor Advantage Gold
LEED: v4 Option 1 & Option 2, v4.1 Option 1

WHERE TO USE.

- Residential and commercial installations.
- Walls, floors, interior, and exterior applications.
- Installation of ceramic, porcelain, glass, and quarry tile; natural stone tiles, mini-brick, pre-cast terrazzo and most other absorptive tiles.

SUITABLE SUBSTRATES

- Concrete (Cured for at least 28 days).
- Masonry cement block, brick, cement mortar beds, and leveling coats.
- Cement backer units (CBUs) - *reference manufacturer's installation guidelines.*
- Gypsum wallboard and plaster - *interior walls in dry areas only.*
- Exterior grade plywood (EGP) - *Interior use only.*
- CementPro waterproofing and crack-isolation membranes.

Always do a test with the bonding mortar to verify the suitability of the bond to the substrate.

Reference NTCA Reference Manual for installation recommendations, including those concerning substrates not listed.

LIMITATIONS

- Install only at temperatures between 50° F and 95° F.
- Do not use for the installation of moisture-sensitive stone (some limestone and green granite), agglomerate tiles, or resin-backed tiles.
- Do not bond directly to hardwood, particle board, parquet, cushion, sponge-backed vinyl flooring, metal, fiberglass, plastic, or OSB panels.

SURFACE PREPARATION

- All surfaces should be frost free and between 50° F and 95° F, structurally sound, clean, hard, and free from dirt, dust, sealers, or any other bond-breaking contaminants.
- Concrete slabs must be fully cured (28 days), structurally sound, and dimensionally stable.
- **Substrate prep should comply with ANSI A108.01 "General Requirements: Subsurfaces and Preparations by Other Trades."**
- **Consult TCNA method EJ-171 for expansion joint placement.**

MIXING

- 1 Pour clean, potable water into a clean mixing container. A whole bag (50 lbs.) of Flex Pro needs approximately 5 quarts (4.5 - 5 Liters) of water.
- 2 Gradually add the bag's contents to the liquid while slowly mixing.
- 3 Using an electric drill with an angled cross (blade mixer), mix on low speed for 2 to 3 minutes until the material becomes a smooth, lump-free paste.
- 4 Let the mixture slake or stand for 5 minutes.
- 5 Remix.
- 6 The finished consistency is reached when the trowel ridges remain upright without flow or slump.
- 7 Occasional mixing of the mortar during use is recommended. However, DO NOT add fresh materials or re-temper. Adding water (re-tempering) can reduce the materials' performance and bond strength.

- >> **Cold Weather Note:** The setting of cementitious mortars and grouts slows concurrently as the temperature drops from 50°F to 35°F. At 35°F it almost ceases. When these conditions occur, additional time must be allowed for the cement bonding materials to sufficiently harden before traffic is allowed. Do not allow mortar or grout to freeze, and do not apply when the substrate is frozen.
- >> **Hot Weather Note:** Hot weather, or any combination of high air temperature, low relative humidity and wind velocity, increases the tendency for dry shrinkage cracking of mortars and grouts, poor physical strength of the cured setting materials from the higher levels of water used during mixing, improper curing and decreases the durability of the installation. Substrates exposed to direct sunlight will have increased temperatures resulting in a rapid loss of workability increasing a mortar's tendency to skin over and dehydrate prematurely and fail to achieve its design strength.

Be aware that it is the temperature of the tile products, bonding materials and substrate that counts, not just the air temperature.

APPLICATION (Refer to current ANSI A 108.5 specifications and TCNA handbook guidelines)

- 1 Use a properly sized notch trowel to ensure proper coverage under tiles. Consider tile types, shapes and sizes of specific application to exceed the 80% minimum coverage for interior dry areas and the 95% minimum coverage for wet and exterior applications. **For trowel guidelines, reference NTCA Reference Manual.*
- 2 Using the flat side of the trowel, with pressure, apply a uniform coat of mortar to the surface. Proper coverage is a continuous thickness of $\geq 3/32$ " between the substrate to the tile underside.
- 3 Then, with the notched side of the trowel held at a 45° angle, apply additional mortar to the surface, combing in a single direction. To assist with collapsing ridges and removing air, comb the notches perpendicular to the long edges of rectangular tiles.
- 4 Adjust the tile promptly and lightly, beat it in with a rubber mallet.
- 5 Periodically pull up a tile and check the contact area in the back to ensure proper adhesion. Open time can vary with job site conditions.
- 6 Apply only as much mortar as can be tiled before the product skins over; If the material has skinned over it is too dry, remove and replace with fresh mortar.

CURING

- The initial set and full cure length depend on climate conditions, usually 24 to 48 hours.
- Allow 72 hours after installation before allowing traffic.
- Allow for proper curing before application of grout.
- DO NOT accelerate the curing of this material with mechanical fans or heating devices.

TECHNICAL INFORMATION	
Shelf Life	1 Year
Storage	Dry and closed / No humidity
Time Before Grouting	24 Hours
VOCs (SCAQMD Rule #1168)	0g per L

COVERAGE PER BAG			
<i>*Actual coverage will vary according to specific substrate and tile used.</i>			
TILE SIZE	TROWEL TYPE	TROWEL SIZE	COVERAGE
Less than 8"	Square Notched	1/4" x 1/4" x 1/4"	85 - 100 ft ²
8 - 15"	Square Notched	1/4" x 3/8" x 1/4"	72 - 85 ft ²

ANSI A118.4 SPECIFICATION			
PROPERTY	TEST DURATION AND/OR CONDITIONS	RESULTS	REQUIREMENTS
Glazed Wall Tile Shear Strength	7 days	390 psi	> 300 psi
	7 day water immersion	305 psi	> 200 psi
Porcelain Mosaic Tile Shear Strength	7 day water immersion	207 psi	> 150 psi
	28 days	410 psi	> 200 psi
Quarry Tile Shear Strength	28 days	315 psi	> 150 psi

ANSI A118.11 SPECIFICATION			
PROPERTY	TEST DURATION AND/OR CONDITIONS	RESULTS	REQUIREMENTS
Unglazed Quarry Tile to Plywood Shear Strength	28 days	345 psi	> 150 psi (10.5 kg/cm ²)

ENVIRONMENTAL INFORMATION

CementPro is committed to environmental responsibility in products produced and manufacturing practices. For information on CementPro's commitment to sustainability and transparency and how CementPro products may contribute to green building standards and certification systems, contact sustainability@cementpro.com or visit www.cementpro.com/sustainability.

// KEEP OUT OF REACH OF CHILDREN //

PRECAUTIONARY STATEMENTS

This material contains Portland cement and silica sand.

- Contact with dry or freshly mixed mortar, grout, or concrete may cause skin irritation.
- Avoid direct contact and wash exposed skin areas promptly with water.
- If any cementing material gets into the eyes, rinse immediately and repeatedly with water, and seek prompt medical attention.

For detailed information on how to use and handle this product safely, see the [Material Safety Data Sheet](#).

California Prop 65 Warning for Quartz Silica Sand

This product contains crystalline silica, a substance known to the State of California to cause cancer. Inhalation of crystalline silica dust can increase the risk of lung cancer, especially for those exposed for extended periods. To minimize exposure during use, always follow safe handling practices like dust suppression techniques during cutting, grinding, or other dust-generating activities. Wear appropriate personal protective equipment, including a respirator with a high-efficiency particulate air (HEPA) filter, and wash hands thoroughly after handling. For more detailed safety information and instructions, please refer to the product's Material Safety Data Sheet (MSDS) available at https://cementpro.com/wp-content/uploads/2022/07/MSDS_FlexPro_2022.pdf or the California Office of Environmental Health Hazard Assessment (OEHHA) website: <https://www.oehha.ca.gov/>

LEGAL NOTICE

This Product Data Sheet has been prepared in good faith based on information available at the time of publication. It is intended to provide users with information and guidelines for properly using and applying the covered CementPro brand product(s) under normal environmental and working conditions. Because each project is different, CementPro cannot be responsible for the consequences of variations in such conditions or unforeseen conditions.

WARRANTY

Every Flex Pro purchase enjoys a standard 1-year limited warranty, safeguarding its quality and performance. Unlock the full potential of your project with our extended 25-Year System Warranty! Use Flex Pro as part of a complete CEMENTPRO installation system and qualify for this extended coverage. Head to <https://cementpro.com/warranty/> for complete details on the standard warranty and the 25-Year System Warranty specifics. At CementPro, we stand behind our products and your satisfaction.



FOR WARRANTY QUESTIONS

Write to: 3929 E Guasti Rd, Unit C Ontario, CA 91761

Call: (951) 300-0300 Ext. 600

Email: Warranty@cementpro.com