



FLEX PRO

TECHNICAL DATA SHEET



PRODUCT DESCRIPTION

FLEX PRO is a polymer-modified, thin-set mortar factory blended with premium ingredients to produce exceptional bond strength and workability and a creamy and flexible solution. This product is designed to install ceramic, porcelain, glass, and natural stone tiles over difficult surfaces such as plywood subfloors and existing tiles.

Available in Gray and White 50 Lb. bags

INDUSTRY STANDARDS AND APPROVALS

- ANSI: Exceeds ANSI A 118.4, ANSI A 118.11 Requirements

ENVIRONMENTAL INFORMATION

CementPro is committed to environmental responsibility in products produced and manufacturing practices.

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, 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- interior use only.
- CementPro waterproofing and crack-isolation membranes.

Reference CementPro's Customer Service Department for installation recommendations concerning substrates not listed.

LIMITATIONS

- Install only at temperatures between 40° F and 95° F.
- Do not use 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 40° 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 A 108.01 "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 lb.) 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 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 re-temper. Adding water (re-tempering) can reduce the materials' performance and bond strength.

Cold Weather Note: The setting of portland cement mortars and grouts is retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. Do not set the tile when the surface temperature is below freezing or when the substrate is frozen.

Hot Weather Note: Hot, dry conditions accelerate moisture evaporation in portland cement mortars. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in hot temperatures.



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.
2. Using the flat side of the trowel, with pressure, apply a coat of mortar to the surface.
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, ensuring the maximum contact area between the tile and the surface.
4. Adjust the tile promptly and lightly, and beat it 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 for proper curing before application of grout.
- DO NOT accelerate the curing of this material with mechanical fans or heating devices.
- Always do a test with the bonding mortar to verify the suitability of the bond to the substrate.



COVERAGE PER BAG

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

TECHNICAL INFORMATION

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

ANSI SPECIFICATION

Property	Test Duration and/or Conditions	Results	ANSI A118.4 Requirements
Glazed Wall Tile Shear Strength	7 days	390 psi	>300 psi (2.07 MPa)
	7 day water immersion	305 psi	>200 psi (1.38 MPa)
Porcelain Mosaic Tile Shear Strength	7 day water immersion	207 psi	>150 psi (1.03 MPa)
	28 days	410 psi	>200 psi (1.38 MPa)
Quarry Tile Shear Strength	28 days	315 psi	>150 psi (1.03 MPa)

Property	Test Duration and/or Conditions	Results	ANSI A118.11 Requirements
Unglazed Quarry Tile to Plywood Shear Strength	28 days	345 psi	>150 psi (10.5 kg/cm ²)



PRECAUTIONARY STATEMENTS

- This material contains Portland cement, silica sand and vinyl acetate co-polymers.
- 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.

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.

For information on CementPro's commitment to sustainability and transparency and how CementPro products may contribute to green building standards and certification systems, contact marketing@cementpro.com.

KEEP OUT OF REACH OF CHILDREN

CEMENTPRO, as a manufacturer of processed material in the state of California, is required by Proposition 65 to provide a warning that one or more of the components contained in this product could contain chemicals known to the state of California to cause cancer, congenital disabilities or other reproductive harm. The state of California requires the above warning in the absence of definitive testing to prove that the defined risks do not exist. We believe this product complies with all other applicable state and federal laws and regulations governing the manufacture, distribution and intended use.

WARRANTY

1-Year Product Limited Warranty. Obtain the applicable LIMITED PRODUCT WARRANTY at <https://cementpro.com/warranty/>. Flex Pro can qualify for up to a 25-year system warranty when used as part of an installation system of CEMENTPRO products. Reference the applicable System Warranty at www.cementpro.com.

For Warranty Questions:

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

Call: (951) 300-0300 Ext. 600

Email: Warranty@cementpro.com

