CEMENTPRO

PATCH *PRO*

TECHNICAL DATA SHEET

FLOOR & WALL INSTALL

PRODUCT DESCRIPTION

Are you tired of dealing with unsightly cracks and damage on your concrete surfaces? Look no further than our revolutionary patching compound - the ultimate solution for all your concrete repair needs! Patch Pro is a fast-setting, polymer-modified, Portland cement-based formula is designed to tackle even the toughest concrete challenges. Whether you're working on interior or exterior projects, our patching compound delivers unparalleled performance and durability. One of the standout features of our patching compound is its ability to develop high compressive strength without shrinking. But that's not all, our versatile formula allows for applications ranging from a featheredge to a thickness of ½", making it the perfect choice for a wide range of concrete repair projects.

Available in 25 Lb. bags

INDUSTRY STANDARDS AND APPROVALS

VOC: SCS Indoor Advantage Gold

WHERE TO USE

- Residential and commercial installations.
- To patch and smooth concrete surfaces before installing different coverings such as ceramic tile, carpet, resilient wood flooring and terrazzo.
- As an embossing leveler.
- As a skim coat or rough-textured.

SUITABLE SUBSTRATES

- Concrete (Cured for at least 28 days).
- Cement backer units (CBUs) - *reference manufacturer's installation guidelines.*
- Exterior grade plywood - *interior use only.*
- Existing, properly prepared, fully bonded sheet vinyl.
- Existing, properly prepared, fully bonded VCT.
- Existing, properly prepared, fully bonded ceramic tile.

<u>Always do a test with the bonding mortar to verify the suitability of the bond to the substrate.</u>
Reference NTCA Reference Manual for installation recommendations, including those concerning substrates not listed.

LIMITATIONS

- Install only at temperatures between 50° F and 95° F, or when relative humidity exceeds 85%.
- This product is not designed as a direct wearing surface; an appropriate floor covering must be installed before it is open to normal traffic.
- Do not apply over standing water.
- Do not use to fill existing expansion control joints.
- When repairing large areas, use as a thin application only.
- Do not apply over self-stick tile, presswood, particle board, flakeboard or similar types of dimensionally unstable substrates.

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, accept water penetration and be free from efflorescence.
- Concrete must be free of negative hydrostatic pressure and/or excessive moisture.
- **Substrate prep should comply with ANSI A108.01 "General Requirements: Subsurfaces and Preparations by Other Trades."**
- **Consult TCNA me***thod EJ-171 for expansion joint placement***.**

MIXING

1 Pour cold, clean water into a clean container. A whole bag (25 lbs.) of Patch Pro will need 2.5 liters (2.64 quarts) 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 Mix only what can be used in 10 minutes.
5 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.
6 **DO NOT OVER-WATER.** Higher water contents can cause separation, reduction of strength and shrinkage.

>> **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 dewater 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 Immediately after mixing, with the flat side of a trowel held at a 45° angle, apply Patch Pro according to the desired thickness (up to 1/2 in.) and fill all damaged areas, depressions and cracks in the substrate.

2 Make sure coverage is smooth and uniform, and avoid over-troweling.

3 If a second layer is required, install it immediately after the first one has set to a walkable hardness (2 hours).

4 For new or smooth surfaces, it is recommended to roughen them.

5 Due to its limitations, it is not recommended for use over plywood in exterior or heavy traffic applications.

6 For use over existing ceramic tile, ensure it is clean and well bonded to the substrate.

7 Allow at least 2 hours to dry and finish with the final floor covering chosen.

8 Patch Pro can be covered with Level Pro, CementPro Thin-Sets, and other adhesives.

CURING

- Allow 2 hours after installation before allowing light traffic.
- Do not use a curing compound or a damp curing method.
- DO NOT accelerate the curing of this material with mechanical fans or heating devices.

TECHNICAL INFORMATION	
Shelf Life	6 months
Storage	Dry and closed / No humidity
Working Time	10 - 15 minutes
Pot Life	22 minutes
Walkable Hardness	2 hours
Density (g/cm^3)	1.9238
Viscosity (cP)	30,000
VOCs (SCAQMD Rule #1168)	0g per L

COVERAGE PER BAG	
APPLIED THICKNESS	COVERAGE
1/32" (0.8 mm)	100 ft^2 (9.3 m^2)
1/8" (3 mm)	50 ft^2 (4.6 m^2)
1/4" (6 mm)	25 ft^2 (2.3 m^2)
1/2" (12 mm)	12 ft^2 (1.1 m^2)

ASTM TESTING	
Initial Setting Time	37 minutes **(ASTM C266)**
Final Setting Time	72 minutes **(ASTM C266)**
Compressive Strength @ 1 day	2,788 psi **(ASTM C109)**
Compressive Strength @ 28 days	4,368 psi **(ASTM C109)**
Flexural Strength @ 28 days	1,157 psi **(ASTM C348)**

ASTM C490 TESTING								
		STANDARD CONDITIONS (%)				WATER IMMERSION (%)		
Description	Unmold	7 days	14 days	21 days	28 days	7 days	14 days	21 days	28 days
Patch Pro	0	-0.0188	-0.0252	-0.022	-0.018	-0.1872	-0.2025	-0.1968	-0.1928

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/pdf/MSDS/patch_pro_msds.pdf or the California Office of Environmental Health Hazard Assessment (OEHHA) website: https://www.oehha.ca.gov/

FOR WARRANTY QUESTIONS
Write to: 3929 E Guasti Rd, Unit C Ontario, CA 91761
Call: (951) 300-0300 Ext. 600
Email: Warranty@cementpro.com