FLOOR PATCH

Fast-Setting Concrete Patching and Repair Mortar

PRODUCT DATASHEET

DESCRIPTION: Rapid Set® FLOOR PATCH is a high-performance, fast-setting repair mortar. It is a blend of Rapid Set hydraulic cement, high-performance additives and specially graded fine sand. FLOOR PATCH has been specially formulated to match the color of typical portland cement concrete. Cutting-edge Self Curing Technology (SCT) means wet curing is not required in most applications. FLOOR PATCH features exceptional workability and can be applied from featheredge to 3" (7.6 cm) thick. FLOOR PATCH has a working time of 15–20 minutes and achieves structural strength in 3 hours.

USES: Use FLOOR PATCH for general and structural concrete repairs such as patching concrete floors and other concrete surfaces.

ENVIRONMENTAL ADVANTAGES: Use FLOOR PATCH to reduce your carbon footprint and lower your environmental impact. Production of Rapid Set cement emits far less CO_2 than portland cement. Contact your CTS representative for EPD, LEED values and other sustainability information.

APPLICATION: Apply FLOOR PATCH in thicknesses from featheredge to 3" (7.6 cm). Most floor coverings can be installed over FLOOR PATCH in 60-90 minutes. Impermeable coverings and coatings can be applied over FLOOR PATCH in 16 hours. Please comply with instructions from the floor covering manufacturer regarding substrate moisture and moisture testing. For sections deeper than 3" (7.6 cm) use Rapid Set® Concrete Mix. Conduct a minimum of one field test using the prepared substrate and finished floor covering to evaluate the suitability of the materials and procedures.

SURFACE PREPARATION: Application surface must be clean, sound and free from any materials that may inhibit bond, such as oil, acid, mastic, sealing compound, wax, dirt and loose debris. Roughen surface and remove all unsound materials. Apply FLOOR PATCH to a surface that is thoroughly saturated with no standing water. Do not use solvents or adhesive removers as means of cleaning the substrate. Acid etching is not recommended. Application surface must be between 45°F and 90°F (7°C and 32°C). Honor all moving joints and cracks.

MIXING: The use of a drill-mounted mixer is recommended. Organize work so that all personnel and equipment are in place before mixing. **Use clean potable water. FLOOR PATCH may be mixed using 3 to 4 quarts (2.8 L to 3.8 L) of water per 50-lb (22.7-kg) bag.** Use less water to achieve higher strengths. Do not exceed 4 quarts (3.8 L) of water per bag. Place water in the mixing container. While mixing, add FLOOR PATCH and mix for the minimum amount of time required to achieve a lump-free, uniform consistency (usually 1 to 3 minutes). Do not re-temper or add additional water after initial mixing.

PLACEMENT: Organize work so that all personnel and equipment are ready before placement. After mixing, place quickly to allow for maximum finishing time. Do not install on frozen surfaces. To extend working time, use Rapid Set® SET Control retarding admixture or use cold mix water. FLOOR PATCH may be applied in temperatures ranging from 45°F to 90°F (7°C to 32°C).

CURING: FLOOR PATCH does not require water curing or curing compound under moderate conditions at 70°F (21°C). In dry, windy or hot conditions, mist with water to maintain a continuously wet surface until the product has achieved sufficient strength.

OVERVIEW

Highlights:

- Quick return to service: 60-90 minutes
- Rapid hardening: Structural strength in 3 hours
- Great workability: Easy to apply, 15-20 minute working time
- Gray color: Formulated to match concrete color
- Self-curing technology

Conforms to:

ASTM C928 R3

MasterFormat® 2016

03 00 00 Maintenance of Concrete

Manufacturer:

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COLD WEATHER: Environmental and material temperatures below 70°F (21°C) may delay setting time and reduce the rate of strength gain. Lower temperatures will have a more pronounced effect. Thinner sections will be more significantly affected. To compensate for cold temperatures, keep material warm, use heated mix water, and follow ACI 306 Procedures for Cold Weather Concreting.

WARM WEATHER: Environmental and material temperatures above 70°F (21°C) may speed setting time and increase the rate of strength gain. Higher temperatures will have a more pronounced effect. To compensate for warm temperatures, keep material cool, use chilled mix water, and follow ACI 305 Procedures for Hot Weather Concreting. The use of SET Control retarding admixture will help offset the effects of high temperatures.

YIELD & PACKAGING: FLOOR PATCH is available in 50-lb (22.7 kg) bags. One 50-lb (22.7 kg) bag of FLOOR PATCH will yield approximately 0.48 ft^3 (0.014 m^3).

SHELF LIFE: FLOOR PATCH has a shelf life of 12 months when stored properly in a dry location, protected from moisture, out of direct sunlight, and in an undamaged package.

USER RESPONSIBILITY: Before using CTS products, read current technical data sheets, bulletins, product labels and safety data sheets at www.CTScement.com. It is the user's responsibility to review instructions and warnings for any CTS products prior to use.

WARNING: DO NOT BREATHE DUST. AVOID CONTACT WITH SKIN AND EYES. Use material in well-ventilated areas only. Exposure to cement dust may irritate eyes, nose, throat, and the upper respiratory system/lungs. Silica exposure by inhalation may result in the development of lung injuries and pulmonary diseases, including silicosis and lung cancer. Seek medical treatment if you experience difficulty breathing while using this product. The use of a NIOSH/MSHA-approved respirator (P-, N- or R-95) is recommended to minimize inhalation of cement dust. Eat and drink only in dust-free areas to avoid ingesting cement dust. Skin contact with dry material or wet mixtures may result in bodily injury ranging from moderate irritation and thickening/cracking of skin to severe skin damage from chemical burns. If irritation or burning occurs, seek medical treatment. Protect eyes with goggles or safety glasses with side shields. Cover skin with protective clothing. Use chemical resistant gloves and waterproof boots. In case of skin contact with cement dust, immediately wash off dust with soap and water to avoid skin damage. In case of skin contact with wet cement, wash exposed skin areas with cold running water as soon as possible. In case of eye contact with cement dust, flush immediately and repeatedly with clean water, and consult a physician. If wet cement splashes into eyes, rinse eyes with clean water for at least 15 minutes and go to the hospital for further treatment.

Please refer to the SDS and www.CTScement.com for additional safety information regarding this material.

LIMITED WARRANTY: CTS CEMENT MANUFACTURING CORP. (CTS) warrants its materials to be of good quality and, at its option, will replace or refund the purchase price of any material proven to be defective within one (1) year from date of purchase. The above remedies shall be the limit of CTS' responsibility. Except for the foregoing, all warranties expressed or implied, including merchantability and fitness for a particular purpose, are excluded. CTS shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the materials.

⚠ **WARNING**
CANCER and REPRODUCTIVE HARM - www.P65Warnings.ca.gov

TYPICAL PHYSICAL DATA

Working Time	
15-20 minutes	

Set Time, ASTM C191 Mod.	
Initial set	30 minutes
Final set	50 minutes

Compressive strength, ASTM C109 Mod.	
3 hours	3000 psi (21 MPa)
24 hours	5000 psi (34 MPa)
28 days	6000 psi (41 MPa)

Data obtained at 3.5 qts (3.3 L) of water per 50 lbs at 70°F