



SURECRETE®



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FLASH PATCH

THIN QUICK DRY
CONCRETE PATCH

DESCRIPTION

Flash Patch™ is a single component, high compressive strength, self-bonding, cement-based patching compound that sets up rapidly, with a 10-minute working time. Due to its relatively fine aggregate (sand), it may be feathered to nearly zero. Flash Patch™ may be overlaid or put in service the same day the patch is applied; there is no lengthy cure time required (see time-lines below).

Flash Patch™ offers superior bonding power without additional bonding agents, able to patch low spots, divots, and spalls in concrete floors. Flash Patch™ is designed for heavy traffic repairs, as it has the resilience to patch commercial loading docks, parking lots, walkways, entryways, and parking garages.

BENEFITS

- Stronger Bond Strength than liquid polymer products
- High Compressive Strength
- Fast Setup and Cure Times
- Tintable via SC TruColor™

SURFACE PREP

The principles for surface preparation for Flash Patch™ are aligned with cement-based overlays placed on concrete and remain constant; the substrate must be:

1. **Clean:** The surface must be free of dust, dirt, oil, grease, paints, glues, sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew and other foreign matter that may serve as a bond breaker.
2. **Cured:** Any concrete must be sufficiently cured to have sufficient hydration, approximately 7 - 14 days depending on temperatures and humidity.
3. **Sound:** No system should be placed upon concrete that is flaking, spalling, or has hibernating spalling.
4. **Profiled:** Proper profile should follow the standard established by the International Concrete Repair Institute (ICRI) Technical Guideline no. 03732 for **Concrete Surface Profile (CSP)**.

The established profile is categorized as CSP-1 through CSP-4. The most common means to properly profile many concrete slabs (especially exterior slabs) is through the use of a pressure washer equipped with a turbo-tip and the use of SCR (see [SCR TDS](#)).

Some concrete slabs that are hard troweled or that are not sound may require more aggressive profiling through diamond grinding or shot blasting.

TEMPERATURE / CURE

1. Air and substrate surface temperatures shall range between 40°F (10°C) and 85°F (29°C) during placement and remain within range for a minimum of 4 hours after placement.
2. No precipitation should occur during or within 3 hours of placement.
3. Temperature must remain above freezing for a minimum of 24 hours after placement.
4. Cure / set times @ 77°F (25°C) ambient temperature
 - a. initial set in 15 – 25 minutes
 - b. light traffic in 45 – 60 minutes
 - c. heavy traffic in 3 – 6 hours.

QUICK FACTS

PRODUCT NAME Flash Patch™

PACKAGING

50 lb. Bag (22.7 kg)

COVERAGE

1 - 50 lb. (22.7 kg) bag of Flash Patch™ = approximately 11 ft² @ ½" (1 m² @ 13 mm)

MIX RATIO / WATER DEMAND

4 – 4 ½ qt. (3.8 – 4.3 liter) water to 1 – 50 pound (22.7 kg) bag of Flash Patch™.

Optional - Add (1) SC TruColor (Color Pack) to (1) 50 pound (22.7 kg) bag (see SC TruColor TDS)

CRACK TREATMENT

Cracks may require treatment: Refer to [SCT-22™](#) Crack and Spall Treatment and [SCT-EP™](#) Epoxy Crack Treatment TDS to evaluate crack as static or structural to set expectation of treatment. Flash Patch™ may fill large voids created by random cracking, but large or structural cracks have sufficient movement to “telegraph” through Flash Patch™ applications. Bridging construction joints in concrete, is never recommended, as they will also “telegraph” through Flash Patch™ applications.

MIXING / APPLICATION

NOTE:

- Commonly, full 50 lb. bags of Flash Patch™, may not be required for patching your surface. Ensure opened bags are kept in a sealed container.
- No more material should be mixed than can be placed in 10 minutes.
- Weighing dry bag mix with a scale is most accurate, what follows below will work with volumetric measuring alone.

Small Batch (1 qt. dry / .95 liter dry)

1. Add 8 oz. or 1 cup (.24 liter) water for each 1 qt. dry (.95 liter) Flash Patch™ to an appropriately sized vessel.
2. Begin adding dry mix to water while running mixer. Mix with an appropriately sized mixer (from a cordless drill with a “jiffy” style blade to a heavy-duty mixer or ½” (12.7 mm) 450 – 600 rpm drill equipped with a cage mixing blade.)
3. Scrape side of pail with a margin trowel to ensure all dry product is incorporated into the wet mix.
4. Continue to mix for a minimum of 30 seconds after all ingredients are combined to achieve a lump-free consistency. Additional water may be added up to a total of 9 oz (.27 liter) water to 1 qt. (.95 liter) dry mix.

Large Batch (Full Bag)

1. Add approximately 4 quarts (3.8 liters) water to a 5 gal. (18.9 liter) pail.
2. Add 1 - SC TruColor™ (premeasured color pack) if desired.
3. Mix with a hand-held concrete mixer, such as an Eibenstock model #EHR 20R or a ½” (12.7 mm) 450 – 600 rpm drill equipped with a cage mixing blade for a minimum of 15 seconds.

- Slowly introduce Flash Patch™ into the pail with mixer running.
- Scrape side of pail with a margin trowel to ensure all dry product is incorporated into the wet mix.
- Continue to mix for a minimum of 1 minute after all ingredients are combined to achieve a lump-free consistency. Additional water may be added up to a total of 4 ½ quarts (4.3 liters) water to 1 – 50 pound (22.7 kg) bag of Flash Patch™.
- No tempering with additional water should be attempted.

Patching Application

NOTE: Before applying Flash Patch™, the surface should be saturated surface dry with clean water (SSD or damp, no puddles).

- Trowel by hand or squeegee product tightly into patched area, as quickly as is reasonable. Minimize troweling, do not overwork surface.
- Allow product to dry sufficiently before placement of any overlay, usually 1-2 hours (depending on surface porosity, temperature, and amount of material used).
- Before applying an overlay, be certain that the patched surface is no longer generating excessive heat from its curing. If applying a coating or sealer, 24 hours is recommended.

SUITABILITY SAMPLE

Always prepare an adequate number of on-site test areas, on the intended substrate to establish aesthetic suitability for products' intended use.

CLEAN-UP

Before Flash Patch™ dries; spills and tools can be cleaned up with water.

DISPOSAL

Contact your local government household hazardous waste coordinator for information on disposal of unused product.

LIMITATIONS

- For use by trained professionals that have read the complete SDS.
- When using SC TruColor™ with Flash Patch™ it will not always match the color chart to perfection.
- Even though Flash Patch™ is designed for vehicular traffic, it is not designed to be used as a traditional topcoat overlay for smooth or textured designs.
- Flash Patch™ has the ability to be hard troweled, when this happens refer to "Surface Preparation" instructions for the overlay, sealer, or coating being placed on top, for detailed instructions on how to prepare the patch for proper adhesion.

WARRANTY

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufactures/seller's option. SureCrete Design Products shall not be liable for cost of labor or direct and/or incidental consequential damages.

WARNING

KEEP OUT OF REACH OF CHILDREN. Inhalation: Avoid prolonged breathing of airborne dust, particularly present during mixing. Use NIOSH approved respirator for nuisance if threshold limit values are unsafe. **Skin Contact:** Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with soap and water. Launder clothing before reuse. If symptoms persist, seek medical attention. **Eyes:** Wear safety eye protection when applying. Contact with eyes may cause irritation. Flush eyes with water for 15 minutes. If symptoms persist, seek medical attention.

SAFETY DATA SHEETS (SDS)

The following are links to all available safety data sheets related to this product:

[Flash Patch - Safety Data Sheet](#)

MANUFACTURER PART

50 lb. (22.7 kg)

SKU # 15103002

SHELF LIFE

Under normal conditions: when kept dry and moisture free, out of direct sunlight, the shelf life of an unopened container is (12) months from the date of purchase. Storage must be under roof and off the floor. Avoid temperature extremes. Rotate inventory to maintain product that is within limits.

TESTING DATA

DENSITY

128 pounds/ft³ (2047 kg/m³)

COMPRESSIVE STRENGTH - ASTM C-109

3 hour 3090 PSI (21340 kPa)
24 hour 4850 PSI (33440 kPa)
28 Days 6042 PSI (41660 kPa)

FLEXURAL STRENGTH - ASTM C-348

6 hour 300 PSI (2068 kPa)
7 day 685 PSI (4723 kPa)

TENSILE STRENGTH - ASTM C-190

6 hour 275 PSI (1896 kPa)
7 day 495 PSI (3413 kPa)