

1. PRODUCT NAME

Rapid Patch® FlexCrete

2. MANUFACTURER

TCC Materials®
2025 Centre Pointe Blvd.
Mendota Heights, MN 55120 USA
Phone: 1.651.688.9116
Web: tccmaterials.com

3. PRODUCT DESCRIPTION

Rapid Patch FlexCrete is a single component, polymer modified, Portland Cement based waterproofing mortar for use in applications where a flexible, durable watertight barrier is required. Flexcrete is designed to bond to concrete and masonry surfaces, is resistant to freeze thaw conditions and chemical and sulfate exposure.

Features and Benefits

- Provides a waterproof barrier that is flexible enough to resist / bridge cracking in the main structure
- Bonds to concrete, masonry, metal, PVC and ABS plumbing fixtures
- Protects against corrosion
- Polymer-modified for increased adhesion and flexibility
- Ready for flood testing in 2 hours at 70°F (20°C) or higher, can accept traffic in 12 hours
- Preblended formula, just add water
- Meets ASTM E96, ASTM C672

When/Where to Use

- Interior or exterior
- Vertical and horizontal
- Pools, pool decks and walkways
- Residential and commercial
- Parking garages
- Planters, balconies

4. TECHNICAL DATA

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤

Technical Data	
Working Time	20-30 min.
Water Vapor Transmission—ASTM E96	1.6-1.7 grains /hr*ft ²
Water Vapor Permeance – ASTM E96	3.9-4 perms
Crack Bridging	1/32" minimum
Compressive Strength (28d)	>5,000 psi
Adhesive Strength-ASTM D4541	>500 psi

Available Sizes

20 lb. (9.1 kg) bag (BOM #113782)

Coverage

One 20 lb. (9.1 kg) bag will yield approximately 0.20 cubic feet.

5. INSTALLATION

Preparation

Read all directions before starting work. Proper surface preparation is crucial to achieving a successful application.

- All surfaces must be structurally sound and clean. Remove all dust, acid, waxes, sealers, old adhesive residue, curing compounds, oil, paint, or any other foreign materials that could inhibit bond.
- Condition all materials to 65°F-75°F (18°C-24°C) 24 hours prior to installation.
- Prior to material placement, dampen the area to be repaired with clean water to a saturated-surface-dry (SSD) condition.
- Organize mixing and application to be as close to the work area as possible to maximize the working time with this accelerated setting material.
- Any rust on exposed rods should be removed by mechanical methods, wire brushing, sandblasting, or scraping.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Mixing

Mix only the amount that can be applied in 15 minutes. The use of a ½" heavy-duty drill (300 RPM or less) with paddle mixer or a mortar mixer is recommended. Avoid high speed mechanical mixing which can entrap air into the mixture. Choose the mixer size most appropriate for the size of the job to be done. Allow at least 1/2 cu. ft. (28 L) of mixer capacity for every 20 lb. (9.1 kg) bag of product.

1. In a clean container, with clean tools, mix with cool water only, no bonding additive is needed. Place ¾ of the desired mixing water, start mixer, then slowly add the dry material. After all of the powder has been added, slowly add the remaining ¼ water until the desired consistency is achieved. The mix consistency should be determined by the project application. Vertical and overhead applications require a firm, plastic, trowelable consistency, while horizontal applications require a more flowable consistency.
2. Mix to a uniform, lump-free consistency, typically 1-3 minutes.
3. Lower temperatures will delay set times. The use of cold water at high temperatures or warm water at low temperatures will aid in adjusting the mix temperature.

Approximate Water Requirements

20 lb. bag	2.5-3.5 pints Do not exceed 3.5 pints
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Application

Ideal application conditions are when air, material, and substrate temperatures are between 50°F-90°F (10°C-32°C) within 24 hours of application and placement, and rain is not forecast 24 hours after. Set times will vary in extremely hot or cold conditions.

1. Apply in two layers, one vertically, one horizontally. Each layer should be 1/16' thick for a total of 1/8' thickness to achieve a waterproof bond.

2. The second layer can be applied once the first layer is dry to the touch.
3. FlexCrete can be applied by trowel, roller (1" nap), squeegee, brush, or spray.
4. FlexCrete can be built up in 2" increments and feather edged.
5. Cold weather conditions below 50°F (10°C) can extend the set time of the product. Heating of the concrete repair area before and after placement and using warm water for mixing may assist in increasing the rate of strength gain. In warm weather conditions, materials and concrete surfaces that are hot may reduce the working time of the product. Keeping water and material cool will assist in maintaining open time of the product.

Clean Up

Use soapy water to clean hands and tools immediately after use. Dried material must be mechanically removed. Use a waste water hardener (e.g. Congelz® or similar product) for cementitious waste disposal.

Limitations

- Follow all industry standard safety procedures when handling, such as gloves and eye protection. Wear gloves at all times, failure to do so can result in severe burns.
- Store in tightly sealed original factory containers off the floor in a dry place
- Use potable water for mixing, no bonding additives are needed.
- Clean trowel frequently during application.
- Do not over-work or over-trowel
- As with all cementitious materials, avoid contact with aluminum to prevent adverse chemical reactions and possible product failure.

Safety

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com.

Cautions

Read complete cautionary information printed on product container prior to use.

This Product Data

Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered Rapid Patch brand product(s) under normal environmental and working conditions. Because each project is different, TCC Materials cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

6. AVAILABILITY

To locate Rapid Patch products in your area, please contact:

Phone: 1.651.688.9116
 Email: info@tccmaterials.com

7. WARRANTY

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, expressed or implied, including, but not limited to those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that Seller's liability to the Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.

Shelf Life	Best when used within one year in original, unopened bags
Storage Conditions	Store dry, cool, out of direct sunlight. Best to condition material to 65-75°F (18°-24°C) before using.
Color	Gray Powder
WARNING: INJURIOUS TO EYES	
KEEP OUT OF REACH OF CHILDREN	



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