

TECHNICAL DATA SHEET

1. PRODUCT NAME

C² CRACK FIX - Fast-Set, Structural Concrete Repair Product

2. SELLER

CRETE COLORS INTERNATIONAL
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3. PRODUCT DESCRIPTION

Composition:

C² Crack Fix is a two-component, 100% solids, structural polyurethane/polyurea hybrid. When cured, **C² Crack Fix** is a rigid structural polymer with a Shore D Hardness of 70-75.

Basic Use:

C² Crack Fix was developed to repair random cracks and surface spalls/popouts and other surface defects in industrial concrete floors that are subject to wheeled traffic. **C² Crack Fix** is designed for use in industrial or retail concrete floors where final building temperatures are 0°C (32°F) to 49°C (120°F).

4. LIMITATIONS

C² Crack Fix is a structural repair product and should not be used as a floor joint filler.

C² Crack Fix is a structural repair product with very high adhesive and tensile properties; consequently it will restrain concrete movement wherever placed and may lead to concrete tearing if substantial concrete movement occurs after placement.

C² Crack Fix is not designed for use in temperatures below 0°C (32°F).

C² Crack Fix overfill may leave a light stain/shadow on some concrete surfaces.



Low Emitting Adhesive/Sealant Complies with:

**LEED
v4.1**

- BD&C, ID&C
- The WELL Building Standard
- ANSI/GBI 01, Green Building Assessment Protocol
- Green Guide for Healthcare V2.2

5. ADVANTAGES

- ▶ Permanent, durable structural concrete repair in minutes.
- ▶ Ready for traffic in 15 - 30 minutes.
- ▶ Can be ground flush with floor in 25 minutes.
- ▶ **C² Crack Fix's** low-viscosity allows for penetration into cracks as narrow as 1/64" (.016" or .40 mm).
- ▶ Unlike many low-viscosity structural repair products, **C² Crack Fix** is virtually odorless.
- ▶ **C² Crack Fix** is non-hazardous and can be shipped by air.

6. PACKAGING

C² Crack Fix is available in 600 ml (300x300) dual cartridges or 250 ml "universal" cartridges. All cartridge kits include a static mixer.

7. TECHNICAL PROPERTIES

Viscosity Profile

Part A.....	120 cps
Part B.....	70 cps
Mixed.....	100 cps

Reaction Profile

(100 grams, 74°F/23°C Sample)

Gel Time, minutes.....	1-1.25
Tack-Free Time, minutes.....	5-8
Traffic Ready, minutes.....	15-30

Typical Physical Properties

Shore D Hardness.....	70-75
Compressive Strength (ASTM D-638), psi.....	4000
Tensile Strength (ASTM D412), psi.....	5500
Elongation (ASTM D412), %.....	6.0-8.0
Die C Tear Strength (ASTM D624), pli.....	400
Mix Ratio by Volume.....	1:1
Odor.....	Odorless
Shrinkage.....	Negligible

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8. COLOR

Standard color is Standard Gray. **C² Crack Fix** is also available in over 68 standard colors and in custom colors by special order.

9. APPLICABLE SPECIFICATIONS

There are no applicable government or ASTM standards for structural polyurea/polyurethane repair products.

10. USE IN USDA/FDA REGULATED FACILITIES

C² Crack Fix is acceptable for use in floors subject to USDA and FDA inspection and regulation.

11. USE IN USGBC[®] LEED V4.1 PROJECTS

C² Crack Fix contains no VOC's (0%) and is fully compliant with USGBC[®] LEED v4.1 green building standards.

12. TECHNICAL ASSISTANCE

Factory personnel are available for product, environment and job-safety assistance with no obligation. Email us at sales@cretecolors.com for technical support.

13. INSTALLATION

C² Crack Fix is designed to be mixed using a universal or dual-cartridge kit with appropriate gun or by hand in very small amounts. Material should be preconditioned to 21°-27°C (70°-80°F) prior to use for best results. **C² Crack Fix** is designed for use in concrete floors at temperatures of 0°C (32°F) or higher. If concrete temperature is lower than 0°C (32°F), temporary heat tenting, etc. must be used to warm up floor area prior to installing material.

If using dual-component cartridges:

Prepare cartridge for dispensing with static mixer and flow restrictor (if included) per kit instructions. Material should be dispensed at a moderate pace using steady pressure. Keep a waste container (disposable cup) handy to dispense **C² Crack Fix** liquid at start of application or if dispensing is delayed for more than 30 seconds (to avoid cured material in mixer tip).

14. USE WITH CONCRETE AND GRINDING/POLISHING OPERATIONS

If using **C² Crack Fix** to repair surface defects in conjunction with grinding/polishing decorative concrete floors, we recommend the following:

When sequencing product installation as part of a concrete grinding/polishing process, install prior to your last metal or transitional tooling step. Use the least aggressive tooling which successfully removes the product and avoids opening more air holes/voids in the floor surface.

14. USE WITH CONCRETE AND GRINDING/POLISHING OPERATIONS (CONTINUED)

Best results are obtained by first grinding off or knocking down any excessive overfill with a cup grinder and medium grit finishing pad, Norton Rapid Strip pad or similar, which will not mar the concrete surface. It is further recommended that grinding operations be delayed for 20 minutes or more after initial **C² Crack Fix** placement (at 21°C/70°F).

15. DEFECT PREPARATION AND REPAIR

Repair area should be completely free of dust, debris, dirt, oils and moisture prior to application of material.

Surface Defects/Spalls

Remove all loose concrete chips, spalls, islands, etc. back to structurally sound concrete with a hammer and chisel or dry cut saw equipped with diamond blade.

Slightly overfill defect and monitor the installation for any seepage. If seepage into defect is detected, dispense additional material to restore flushness with surface. After **C² Crack Fix** cures into a hard solid (approximately 25 minutes) grind off any excess flush with surface using a cup grinder with medium grit pad or hand grinding stone.

Anchor Bolt Holes

If anchor is still intact, cut off as much of the bolt as possible prior to slightly overfilling defect with **C² Crack Fix**.

Random Cracks

Cracks up to 1/8" (3 mm) in width should be cleaned using a Nyalox or soft wire wheel or brush and vacuumed prior to filling with neat **C² Crack Fix**. Fill/overfill crack with neat **C² Crack Fix** and grind off any high spots after cure.

For cracks wider than 1/8" (3 mm) or cracks where continual movement is suspected, an alternate recommended repair method is to rout out the crack using a diamond blade to a depth of 1/2" (12 mm) to 3/4" (18 mm) and filling the crack with a semi-rigid filler, such as **C² Joint Fill**.

16. SAFETY

C² Crack Fix is for industrial use only. Use only in well ventilated areas. Practice all normal jobsite safety precautions (clear work area, etc). Thoroughly review SDS for additional information prior to use.

17. WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

Crete Colors International warrants this product to be free from defects. *Where permitted by law, Crete Colors makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose.* The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. Crete Colors International's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves Crete Colors from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability.

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