



# CONCRETE TINGS INC®

# CR-FLEX Crack Repair

Product Description & Technical Data Sheet

**LOAD BEARING JOINT FILLER THAT PROTECTS CONCRETE FLOORS  
SUBJECTED TO HEAVY DUTY COMMERCIAL AND INDUSTRIAL ABRASIVE  
TRAFFIC USES IN A POURABLE OR PUMPABLE CONSISTENCY**

### DESCRIPTION

CR-FLEX is a 100% solids, Moisture-insensitive, Non-shrink, 2 component Modified Epoxy Joint Filler.

### WHERE TO USE

In Dry or Damp Concrete Saw Cut or Control Joints for Foot, Vehicular Pneumatic Tire and Hard Plastic Wheel Traffic.

Typical Industries of Use

- Food Processing
- Pharmaceutical
- Manufacturing
- Commercial Buildings
- Parking Decks

### ADVANTAGES

- Available in Large Volume
- Cartridges -- 0.68 Gals
- Available in Bulk Containers
- Good Working Time
- No Odor
- No VOC's – 100% Solids
- Non-Shrinking
- Moisture-insensitive Formula
- Fast Cure Rate
- Cures Down to 40°F (4°C)
- Excellent Strength Properties
- High Load Bearing Strength
- Excellent Impact Resistant
- Chemical and Waterproofs
- Easy to Place and Shave
- Cost Effective Joint Sealing System

### TYPICAL DATA FOR CR-FLEX.

(Material and Curing Conditions at 73°F unless noted, 50% R.H.)

<b>COLOR</b>	10-Standard Colors	<b>VISCOSITY</b>	900-1,200 cps.
<b>POTLIFE</b>	10-14 minutes	<b>CONSISTENCY</b>	Flowable Fills Void Leaving Small Bead

### TACK-FREE TIME

Substrate Temperature	40°F *	73°F	90°F
	8-10 hrs.	4-5 hrs.	3-3.5 hrs.

### TENSILE PROPERTIES (ASTM D 638) 7 Days

Tensile Strength	1,000 psi
Elongation at Break	80 - 100%

### COMPRESSIVE STRENGTH (ASTM D 695)

	40°F *	73°F	90°F
1 days	1,100 psi	1,200 psi	1,400 psi
7 days	2,100 psi	2,200 psi	2,200psi

\* Pre-conditioned epoxy to 90°F before mixing

### PULL OFF STRENGTH – ADHESION TO CONCRETE (ASTM D 4541)

	40°F *	73°F	90°F
7 days	245 psi	280 psi	290 psi

### HARDNESS, SHORE D (ASTM D 2240)

7 days 35-45

### WATER ABSORPTION (ASTM D 570)

7 days 0.60%

**SHELF LIFE** 1.5 years in original unopened containers

**PACKAGING**      **Pails** – 2, 4 & 10 Gallon Units (231 IN<sup>3</sup>/Gal)  
**Cartridge Package** – 160 in<sup>3</sup> (0.69 Gals)

**CARTRIDGE PUMP UNIT** – The Jake Power Cartridge Pump Unit Mixes the Epoxy Through a Static Mix Tube Eliminating Potlife and Measuring Problems.

**VOLUME MIX RATIO** 1 TO 1

\* Pre-conditioned epoxy to 90°F before mixing

**SURFACE PREPARATION**

**MECHANICAL MIXING**

**CAUTION**

All inner joint surfaces must be free of dust, coatings, grease, sealants, waxes and all other contaminants and have all deteriorated concrete removed to a sound and clean surface. Typical removal methods include dust-free abrasive blasting or enlarging joint width by saw cutting. Protect joints from contamination after cleaning and prior to product placement.

### JOINT DESIGN

Follow ACI's Standard Joint Specification for sizing and filling the joint depth to 25% of the concrete thickness. If the crack at the bottom of the joint is open, materials such as a backer rod may be used to prevent epoxy from seeping out of joint void to be filled.

### PRECONDITIONING POLYMER

When temperatures drop polymers typically thicken and it becomes harder to pour the product. When temperatures are warmer, they become thinner. To improve the flowability of product precondition product temperature at 73° F (20° C) or higher. When the substrate temperatures are 60° F (15° C) or lower preheat each epoxy component to 90° F before mixing. **Caution** - the potlife will be reduced by about 50% when mixing by mechanical means. It does not affect the epoxy when a static mixing tube is used for mixing (cartridges).

Mix Component "A" (when pigmented) then pour Component "B" into "A" and mix for 60 seconds (until one even color develops) with a low speed paddle attached to a drill (400-600 rpm). The mixed product is ready for immediate placement.

### NO PREMIXING IS REQUIRED FOR PRODUCT PACKAGED IN CARTRIDGES.

### COVERAGE

Product coverage is depended upon the width, depth, and length of the joint to be filled. One gallon contains 231 in<sup>3</sup> and one cartridge unit contains 160 in<sup>3</sup> of mixed product.

### APPLICATION METHODS

The product has a convenience mix ratio of 1 to 1 by volume and maybe poured or pumped into the joint void.

### LIMITATIONS

- Substrate Temperature must be 40° F (4° C) or above.
- Minimum Application Temperature is 40° F (4° C).
- DO NOT APPLY on WET SUBSTRATE.
- DO NOT THIN – Solvents will prevent proper cure.
- Do Not Add Aggregate to Product or Place Aggregate in Joint Before Filling Joint.
- Pre-condition Polymer as Needed.

### Before Using Read Material Safety Data Sheets.

**Component "A"- Irritant** - Contains epoxy resins. Prolonged contact with skin may cause irritation. Avoid contact with eyes.

**Component "B" - Corrosive** - Contains amines. Contact with skin may cause severe burns. Avoid eye contact. Product is a strong sensitizer

### Important Information

Use of safety goggles, chemical-resistant gloves, adequate ventilation and NIOSH/MSHA approved respirator is recommended.

### FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. For respiratory problems, remove person to fresh air. Contact Physician Immediately. Wash clothing before re-use.

### CLEAN-UP

In case of spills wear suitable protective equipment, contain spill, and collect with absorbent material, place in suitable container, ventilate area. Avoid contact. Dispose according to applicable local, state, and federal regulations.

### FOR INDUSTRIAL USE ONLY

**KEEP OUT OF REACH OF CHILDREN**

LIMITED WARRANTY - "Concrete Coatings Inc. warrants its products to be free of manufacturing defects, to be of good quality, and that they will meet Concrete Coatings Inc. current published physical properties when applied in accordance with Concrete Coatings Inc. written directions and tested in accordance with ACI, ASTM and Concrete Coatings Inc. Standards. Product proved to be defective will be replaced. **There are no other warranties by Concrete Coatings Inc. of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product.** Concrete Coatings Inc. shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, from any other cause whatsoever. Concrete Coatings Inc. will not be responsible for use of this product in a manner to infringe on any patent held by others." Manufactured exclusively for Concrete Coatings Incorporated by Crown Polymers, LLC, Hampshire, ILL

### FOR INDUSTRIAL USE ONLY

**Technical Assistance, Specifications and Sales**  
**CALL Nationwide Toll-Free 1- 800- 443- 2871 Fax 1-801-544-5896**