

**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-FLEXTM is a 100% solids, moisture-insensitive, non-shrink, two-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.

ADVANTAGES

- Available in large volume
- Cartridges - 0.1849 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-FLEXTM - (CURED RESIN)

COLOR Clear to Amber VISCOSITY 900-1,200 cps.
POTLIFE 10-14 minutes CONSISTENCY Flowable

TACK-FREE TIME

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

PULL OFF STRENGTH

ADHESION TO CONCRETE ASTM D 4541
40°F * 73°F 90°F
7 days 245 psi 280 psi 290 psi
*Pre-conditioned epoxy to 90°F before mixing

HARDNESS, SHORE D ASTM D 2240

7 days 35-45

WATER ABSORPTION ASTM D 570

7 days 0.60%

SHELF LIFE

Original unopened containers 18 months

VOLUME MIX RATIO

..... 1:1

PACKAGING

CR-FLEXTM IS AVAILABLE IN TWO-PART CARTRIDGES, AND TWO-GALLON (7.57L) AND TEN-GALLON (37.85L) KITS.

SURFACE PREPARATION

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.

PRECONDITIONING EPOXY

When temperatures drop, epoxies typically thicken and it will become harder to pour the product. When temperatures are

warmer, epoxies 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 pot life will be reduced by about 50% when mixing by mechanical means. Using a static mixing tube with cartridges does not affect the epoxy.

APPLICATION METHODS

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



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.

MECHANICAL MIXING

Mix Component A 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.

COVERAGE

Product coverage is depended upon the width, depth, and length of the joint to be filled. One gallon contains 231in³ and one cartridge unit contains 42.7in³ of mixed product.

LIMITATIONS

- Substrate Temperature must be 40°F (4°C) or above
- Minimum application temp 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 epoxy as needed

CAUTION

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**

ORDER SPECIFICATION

Product: CR-FLEX™		
Shipping Weight: 4 lbs (1.81 kg)	Container Size: 2-Part Cartridge (3.79 L)	Item No: CR-FLEX
Shipping Weight: 18 lbs (4.08 kg)	Container Size: 2-Gallon Kit (3.79L)	Item No: CR-FLEX-G
Shipping Weight: 90 lbs (40.82 kg)	Container Size: 10-Gallon Kit (37.85L)	Item No.: CR-FLEX-10

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