

# UCAN **CRACKFAST™**

## Product Information Sheet

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### Crack Injection Kit

#### Description

UCAN CRACKFAST™ is specifically formulated as a two component, low viscosity, fast curing epoxy sealing system for repairs to cracks in concrete and solid masonry. It conforms to ASTM C-881.

The CRACKFAST™ kit comprises two main products:

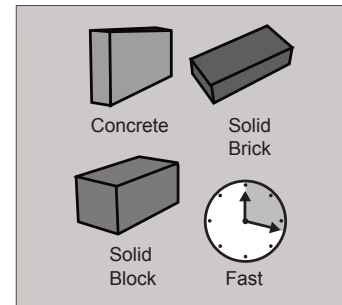
1. A rapid cure thixotropic injection port adhesive and crack surface sealer
2. A low viscosity, 100% solids epoxy with no VOCs

#### Where to use

- Low pressure injection of cracks in structural concrete and solid masonry
- Gravity feed of cracks in horizontal concrete and horizontal solid masonry

#### Advantages

- As strong as concrete
- Convenient mix in the nozzle cartridge system for both the CRACKFAST™ Seal and Injection Resin
- Cartridges fit standard caulking guns



#### CRACKFAST™ usage per kit

Crack Width (in)	Crack Depth (in)	Crack Length (ft)
1/16"	1"	10'
1/8"	1.5"	10'
1/4"	1"	6'

#### Packaging

Each carton contains one complete kit that comprises:

Item Description	Number of items per kit
300ml (10 fl. oz) CRACKFAST™ SEAL Cartridge	2
SEAL Mixer Nozzle	2
SEAL Applicator Fan	2
250ml (8.4 fl. oz) CRACKFAST™ RESIN Cartridge	2
Cartridge Outlet Plug	2
RESIN Mixer Nozzle with Extension Tube	2
Fit Connector	1
Injection Port	16
Pair of Gloves	2
Wooden Spatula	2
Instruction DVD	1

### CRACKFAST™ RESIN Cartridge

#### Technical Data

Shelf life	18 months in original unopened containers
Storage conditions	Store dry at 40 - 75°F / 5 - 24°C
Colour	Clear Amber
Mixing ratio	Component A : Component B 1:1 by volume
Viscosity	After Mixing 500cps at 72°F / 23°C
Typical mixed density	9.2lb/gal / 1.1g/cm <sup>3</sup>
Typical Pot life	25 - 30 minutes (60 gram mass) at 72°F / 23°C
Tack free time	3 hours at 72°F / 23°C
Typical cure time	24hrs at 72°F / 23°C
VOC	ASTM D2369 - 5.4%

Compressive strength, ASTM D 695		40°F / 5°C	68°F / 20°C	95°F / 35°C
4 hours	psi	-	-	580
	N/mm <sup>2</sup>	-	-	4
8 hours	psi	-	-	2320
	N/mm <sup>2</sup>	-	-	16
16 hours	psi	-	2465	3625
	N/mm <sup>2</sup>	-	17	25
1 day	psi	-	3480	5365
	N/mm <sup>2</sup>	-	24	37
3 days	psi	1595	8990	5655
	N/mm <sup>2</sup>	11	62	39
7 days	psi	6670	9425	7105
	N/mm <sup>2</sup>	46	65	49
14 days	psi	7975	9715	7975
	N/mm <sup>2</sup>	55	67	55
28 days	psi	9425	10150	10150
	N/mm <sup>2</sup>	65	70	70

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## Physical Properties

Test	Test Standard	Value	
		Imperial	SI
Viscosity Mixed 73°F / 23°C	ASTM D 2393	500cps	
Pot Life 73°F / 23°C, 2.1oz / 60g Mass	ASTM C 881	30 minutes	
Compressive Strength 7 Days @ 73°F / 23°C	ASTM D 695	9425psi	65N/mm <sup>2</sup>
Compressive Modulus 7 Days @ 73°F / 23°C	ASTM D 695	232000psi	1.69GN/m <sup>2</sup>
Tensile Strength 7 Days @ 73°F / 23°C	ASTM D 638	6235psi	43N/mm <sup>2</sup>
Elongation at Break 7 Days @ 73°F / 23°C	ASTM D 638	25%	
Tensile Modulus 7 Days @ 73°F / 23°C	ASTM D 638	261000psi	1.8GN/m <sup>2</sup>
Flexural Strength 7 Days @ 73°F / 23°C	ASTM D 732	10150psi	70N/mm <sup>2</sup>
Bond Strength 2 Days @ 73°F / 23°C (Moist Cure)	ASTM C 897	464psi Concrete Failure	3.2N/mm <sup>2</sup> Concrete Failure
Bond Strength 14 Days @ 73°F / 23°C (Moist Cure)	ASTM C 897	365psi Concrete Failure	2.5N/mm <sup>2</sup> Concrete Failure
Water Absorption 7 Days @ 73°F / 23°C	ASTM D 570	0.24%	
Heat Deflection Temperature 7 Day @ 73°F / 23°C	ASTM D 648	109.7°F	43.2°C

## CRACKFAST™ SEAL Cartridge

### Work time & Curing time

Shelf life	18 months in original unopened containers
Storage conditions	Store dry at 40 - 75°F / 5 - 24°C
Colour	Concrete Grey
Mixing ratio	Component A : Component B 1:1 by volume
Viscosity	After Mixing 500cps at 72°F / 23°C
Typical mixed density	14.2lb/gal / 1.7g/cm <sup>3</sup>
VOC	ASTM D2369 - 4.3%

	Temperature	Work Time	Curing Time
	41°F / +5°C	18 minutes	145 minutes
	50°F / +10°C	10 minutes	85 minutes
	68°F / +20°C	6 minutes	50 minutes
	77°F / +25°C	5 minutes	40 minutes
	86°F / +30°C	4 minutes	35 minutes

CRACKFAST™ SEAL must be cured prior to injection of CRACKFAST™ RESIN.

## Application

The following notes are of necessity general in nature, since each injection application is unique and must be assessed on its own merits, but they may be used as guidelines.

### 1. Substrate Preparation

A successful application depends on very thorough preparation. The crack to be treated must be dry and free from grease, oil, dust and other contaminants. Any loose material must be blown or brushed clear.

For vertical cracks (walls, columns, beams) The surface of the crack should be sealed with the fast setting Capseal supplied. Capseal should also be used to fix the injection ports. The distance between the injection ports should be greater than the estimated depth of the crack (typically 1.5 times).

### 2. Application

For horizontal cracks (floors, slabs, etc) To gravity feed cracks seal the underside of the substrate prior to filling if the crack reflects through. Dispense the injection resin slowly into the vee-notched crack. Continue injecting until completely filled.

### Limitations

- Minimum substrate and ambient temperature 41°F / 5°C. Maximum substrate temperature 113°F / 45°C.
- Minimum age of concrete must be 21-28 days, depending on curing and drying conditions.
- Do not apply over wet, glistening surfaces.
- Not for injection of cracks subjected to osmotic or hydrostatic pressure during application.
- Do not inject cracks greater than 1/4in. (6mm) Consult Technical Services.
- Not an aesthetic product. Colour may alter due to variations in lighting and/or UV exposure.



### Health & Safety

For H&S info please refer to the relevant Material Safety Data Sheet. [www.ucanfast.com](http://www.ucanfast.com)

### Important Note

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it, that the actual conditions of use are suitable and that, in the light of our continual research and development programme the information relating to each product has not been superseded.