



**CITADEL®  
FORTIFICATION FORMULA KIT FAST**

**DESCRIPTION AND USES**

Citadel® Fortification Formula Kit Fast is a two component, 100% solids polyurea crack repair compound. This ultra-fast cure crack repair can be used at temperatures as low as -5°F (-20.5°C) and is suitable for traffic in 15 minutes.

**PRODUCT FEATURES**

- Bonds well to a variety of substrates including concrete, wood, fiberglass and asphalt
- Fast cure times, even in cold temperatures
- Return to service in 10-30 minutes
- Virtually no odor

**PRODUCT**

SKU	DESCRIPTION (Kit)
390097	Gray 1 gallon
378350	Gray 10 gallon

**PACKAGING**

1 gallon kit contains both components. Part A and Part B components are packaged in 1/2-gallon plastic containers. Kit yields one full gallon.

10-gallon kit contains both components. Part A and Part B components are packaged in 5-gallon pails. Kit yields 10 gallons.

**PRODUCT APPLICATION**

**READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT**

**SURFACE PREPARATION**

New concrete must cure 30 days at 70°F (21°C) before repairs are made. Remove all dirt, grease, oil, salt, or other contaminants by washing surface with Krud Kutter® PRO Cleaner Degreaser, commercial detergent or other suitable cleaner. Rinse thoroughly with fresh, clean water. Remove all loose, unsound, or deteriorated concrete.

Small hairline cracks must be chased using a V-shaped diamond crack chasing blade on a handheld grinder. The crack should be opened to a minimum of ¼ inch wide. Any oil or grease that may have seeped into a crack and contaminated the edge of the concrete must be removed by grinding if washing is not sufficient. Use dry silica sand to fill deep cracks leaving a depth of ¼ inch down from the surface. The Fortification Formula Kit Fast will soak into the silica and fortify the patch.

**PRODUCT APPLICATION (cont.)**

**MIXING**

Mix both components separately prior to combining. Pour out equal volumes of each component, then combine and mix together for 20-30 seconds. Fortification Formula Kit Fast cures very quickly, so only mix up amounts that can be used within 5 minutes. Once mixed, Fortification Formula Kit Fast is an easy flowing liquid. For some repairs, such as spalled areas or edge repair, dry silica sand can be added and mixed in to create a trowelable paste. Never use more than one part silica to one part activated liquid.

**APPLICATION**

Fortification Formula Kit Fast is suitable for application temperature down to -5°F (-20.5°C). Within one minute of mixing, pour Fortification Formula Kit Fast into the crack to be filled. Fill the crack to a slight excess and allow to cure. Fortification Formula Kit Fast will cure in 10-15 minutes. Once cured, and the material cannot be indented by a thumbnail, the excess material can be removed by grinding to a flush surface.

**NOTE:** Fortification Formula Kit Fast must be profiled by grinding or sanding if it is going to be topcoated.

**THINNING**

None required.

**CLEAN-UP**

Methyl Ethyl Ketone (MEK).

**PERFORMANCE CHARACTERISTICS**

**TENSILE STRENGTH**

METHOD: ASTM D412  
RESULT: 4,800

**ABRASION RESISTANCE**

METHOD: ASTM D4060, CS 17 Wheel, 1,000 g load, 1,000 cycles  
RESULT: 20 mg loss

**HARDNESS, DUROMETER**

METHOD: ASTM D2240  
RESULT: 67-72 D

**COMPRESSIVE STRENGTH**

METHOD: ASTM C109  
RESULT: 5,600 and with silica added 6,200

**ELONGATION**

METHOD: ASTM D412  
RESULT: 6-8%

	<b>TECHNICAL DATA</b>	<b>CDL-21</b>
	<b>CITADEL®</b> <b>FORTIFICATION FORMULA KIT FAST</b>	

**PHYSICAL PROPERTIES**

		FORTIFICATION FORMULA KIT FAST
<b>Resin Type</b>		Polyurea
<b>Solids</b>	<b>By Weight</b>	100%
	<b>By Volume</b>	100%
<b>Mixing Ratio</b>		1 (base) : 1 (activator) by volume
<b>Induction Period</b>		None
<b>Working Time</b>		5 minutes @ 77°F (25°C)
<b>Pot Life</b>		None. Pour out all material immediately after mixing
<b>Estimated Coverage*</b>		230 linear feet per activated gallon @ 1/4" wide and 1/4" deep
<b>Dry Times at 72°F (22°C) and 50% Relative Humidity</b>	<b>Dry Hard</b>	5-10 minutes
	<b>Foot Traffic</b>	10 minutes
	<b>Vehicle Traffic</b>	30 minutes
<b>Shelf Life</b>		5 years
<b>Safety Information</b>		See SDS

\*Coverage rate is estimated and accounts for material lost when grinding away excess material for a smooth finish.

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