



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 Rust-Oleum® Professional 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 1/4 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 1/4 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.

CLEANUP

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%

PATCH & REPAIR	TECHNICAL DATA	CDL-21
 CITADEL	FORTIFICATION FORMULA KIT FAST	

PHYSICAL PROPERTIES

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

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

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