



CITADEL

POXYFLEX

DESCRIPTION AND USES

Citadel® PoxyFlex is a special high-elongation epoxy. This high-solids material will not shrink. It is used to reduce the possibility of crack transmission from the concrete to the rigid monolithic topping above. The integrity of the chemical barrier is thus maintained.

PoxyFlex is suitable as a flexible flooring membrane as well as for individual crack repair. PoxyFlex can be used indoors in areas of relatively constant temperatures. For other applications, please consult Rust-Oleum Technical Service.

PoxyFlex is suitable for control, contraction, or construction joints. It is not intended for joints specifically designed for movement. It is highly recommended that any crack repair or isolation be evaluated by experienced personnel before proceeding.

This product is typically installed by factory trained contractors. Be sure you are fully aware of all application procedures and have all the required equipment available prior to beginning the installation of this product.

PRODUCT FEATURES AND BENEFITS

- Excellent flexibility
- Moisture tolerant
- Excellent intercoat adhesion with epoxy topcoats

PRODUCT

PoxyFlex is packaged in 3-Gallon kits. Custom colors are available upon request. PoxyFlex is not UV stable and will discolor quickly if not topcoated within 48-72 hours..

SKU	DESCRIPTION (3-Gallon Kit)
407943	Light Gray
407944	Custom

PRODUCT APPLICATION

SURFACE PREPARATION

NEW CONCRETE: Laitance must be removed by grinding or shot blasting. On concrete that has been cured with curing compounds or has a burned in finish, grinding, shot blasting or abrasive blasting is required.

EXISTING CONCRETE: Concrete must be sound, and old coatings and toppings must be removed. Concrete must be clean and free of previous coatings, oil, wax, and other contaminants. Water soluble contaminants should be hosed off with water. Water insoluble materials will require the use of a cleaner/degreaser or some other method of removal.

Concrete must be visibly dry at the time of application.

PRODUCT APPLICATION (cont.)

PRIMING

PLE-100 is recommended when PoxyFlex is being used as a flooring membrane. Priming is not necessary for crack repair.

MIXING

Mixing is accomplished with an electric drill and Jiffler attachment or similar. Pre-mix Part A before adding Part B, then mix both Parts A and B for 60 seconds. Mix ratio is 1:1 by volume.

APPLICATION

PoxyFlex may be applied at temperatures between 65-90°F (18-32°C). Limit application to conditions less than 85% relative humidity to prevent bubbling. Application (at 40 mils) is accomplished with a notched squeegee and ¾ inch nap roller. Allow to cure for 16-24 hours before topcoating.

COVERAGE

Applied at 40 mils: 2½ gallons per 100 square feet (9.3 m²/l)

CLEAN UP

Xylene can be used to remove material from equipment if it is cleaned before the material has started to set up. Otherwise, stronger solvents will be necessary.

SAFETY

PoxyFlex contains amine curing agents. Avoid skin contact. In case of eye contact or ingestion, contact a physician immediately. In case of skin sensitivity to these materials, use protective clothing and gloves.

SAFETY DATA SHEETS

Safety Data Sheets are available upon request. It is strongly recommended that they be read by all persons handling PoxyFlex.

PERFORMANCE CHARACTERISTICS

TENSILE STRENGTH

METHOD: ASTM D638

TYPICAL VALUE: 2260 psi

ELONGATION

METHOD: ASTM D638

TYPICAL VALUE: 77%

**CITADEL****POXYFLEX****PERFORMANCE CHARACTERISTICS (cont.)****TEAR RESISTANCE**

METHOD: ASTM D1938

TYPICAL VALUE: 265 in. lbs.

LAP SHEAR STRENGTH

METHOD: ASTM D3983

TYPICAL VALUE: 1600 in. lbs.

BOND STRENGTH TO CONCRETE

METHOD: ASTM D4541

TYPICAL VALUE: >260 psi (concrete fails first)

HARDNESS, SHORE D

METHOD: ASTM D2240

TYPICAL VALUE: 45

TABER ABRASION

METHOD: ASTM 4060, CS 17 Wheel

TYPICAL VALUE: Loss/1000 cycles = 56 mg.

		TECHNICAL DATA	CDL-65
 CITADEL		POXYFLEX	

PHYSICAL PROPERTIES

		POXYFLEX
Resin Type		Polyamine Converted Epoxy
Pigment Type		Crystalline Silica
Weight*	Per Gallon	9.5 lbs.
	Per Liter	1.14 kg
Solids*	By Weight	100%
	By Volume	100%
Volatile Organic Compounds*		<2 g/l (0.016 lbs./gal.)
Recommended Dry Film Thickness (DFT) Per Coat		40 mils
Wet Film to Achieve DFT		40 mils
Practical Coverage at Recommended DFT		100 sq. ft. per 2½ gallons 20 linear feet per gallon 1" joint x 1" depth (as a joint filler)
Mixing Ratio		1:1 base to activator by volume
Induction Period		None
Pot Life[†]		30 minutes
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Recoat	16-24 hours
	Light Traffic	24 hours
	Vehicle Traffic	48-72 hours
Shelf Life		5 years
Flash Point		>100°F (38°C)
Safety Information		For additional information, see SDS.

Calculated values are shown and may vary slightly from the actual manufactured material.

*Activated material

†Pot life may be as short as 20 minutes in higher temperatures.

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.



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