



CITADEL® POLYFLEX-93 WITH STATIC MIXER

DESCRIPTION AND USES

Citadel® Polyflex-93 is a two component, 100% solids, VOC Compliant, self leveling flexible control and expansion joint filler. This product cures rapidly and consistently at temperatures ranging from -20°-120°F. With a tack-free time of under 5 minutes, Polyflex-93 reduces downtime and allows repaired areas to be reopened to vehicle or foot traffic in one hour. Excellent elastomeric properties create flexibility while a tenacious bond to the concrete sidewalls of the joints leads to long lasting results and performance.

PRODUCT

DESCRIPTION (Gray)	SKU
Poly-Flex 93 with Static Mixer	25220B

JOINT PREPARATION

Remove all dust, debris, oil and any other contamination from the construction and/or saw cut joints. For best results re-cut the joints with a dry diamond blade. Joints must be clean and dry. Fill deep cracks with backer rod before applying the joint sealant. The minimum depth of the joint should be twice the width with a minimum depth of ½ inch. Dispense material into joint so that material is slightly higher than the face of the concrete. Allow the product to set for approximately 45-90 minutes at 75°F. Then use a sharp razor scraper to shave excess material from top of slab.

LIMITATIONS: Polyflex-93 is not intended for joints that are subject to high movement on exterior applications. This is a moisture sensitive product during and prior to full cure. Joints must be clean and dry to facilitate a strong bond.

Note: 22 oz. Polyflex-93 comes in a side by side dual component cartridge. It is compatible with any standard 22 oz. dispensing tool.

CARTRIDGE SET-UP

IMPORTANT: Shake cartridge vigorously for 1 minute, then stand cartridge upright for 1 minute. During set-up of cartridge and initial dispensing of material, keep cartridge and nozzle assembly pointed straight up.

AFTER the initial shot of material, do not point the cartridge upward to prevent material in nozzle from flowing back into cartridge.

The two components are supplied in a dual cartridge and mixed simultaneously through a static mixing nozzle. While preparing cartridge for dispensing, keep cartridge in upright position to prevent material from leaking out of cartridge. Do not tilt cartridge until material is ready to be applied to the repair area.

PRODUCT APPLICATION

APPLICATION

Insert cartridge into dispenser. Make sure it is properly positioned with shoulder of cartridge flush with front/top bracket of the dispenser. Remove plastic cap from the top of the cartridge. Place the mixing nozzle onto the cartridge and secure by threading in a clock-wise direction. Make sure that the nozzle and cartridge assembly is secure. Point nozzle straight up and slowly apply pressure to the dispenser, moving product up and through the nozzle until it reaches the tip. Then dispense 1 stroke of material into a rag or disposable container (1-2 quick bursts if using an air tool) and discard. After purging keep the cartridge pointed downward or horizontal to prevent mixed material in the nozzle from flowing back into the cartridge.

Place the mixing nozzle directly over the crack, joint, or repair area. Dispense material using full smooth trigger pulls (no short choppy strokes) and allow material to gravity feed into the crack/joint. Fill the crack/joint or over-fill the crack/joint so that material is slightly higher than the face of the concrete slab you are repairing. Allow the product to set for approximately 45-90 minutes (at 75°F), then remove excess material with a sharp razor scraper to shave excess material from the top of slab; avoid chopping motions. **DO NOT ALLOW MATERIAL TO RESIDE IN THE STATIC MIXER FOR LONGER THAN 45 SECONDS OR BLOCKAGE CAN OCCUR**

CLEAN-UP

Clean up immediately with xylene. Rust-Oleum 160 Thinner or MEK may be substituted.

PERFORMANCE CHARACTERISTICS

TENSILE STRENGTH
METHOD: ASTM D412
RESULT: 1600 PSI

ELONGATION
METHOD: ASTM D412
RESULT: 170%

BOND STRENGTH
METHOD: ASTM D624
RESULT: 375 kN/m minimum

HARDNESS, SHORE D
METHOD: ASTM D2240
RESULT: 90-93

POT LIFE : 1-2 minutes

Note: Higher temperatures and larger quantities will shorten the gel-time. Lower temperatures and smaller quantities will lengthen gel-time.

TECHNICAL DATA

CDL-24



**CITADEL® POLYFLEX-93
WITH STATIC MIXER**

COVERAGE CHART

Joint Size	Lineal Feet (9 oz.)	Lineal Feet (20 oz.)
1/8" x 1"	10.3	26.7
1/8" x 1 1/4"	8.3	21.3
1/8" x 1 1/2"	6.9	17.8
1/8" x 1 3/4"	5.9	15.2
3/16" x 3/4"	9.2	23.7
3/16" x 1"	6.9	17.8
3/16" x 1 1/4"	5.5	14.2

Joint Size	Lineal Feet (9 oz.)	Lineal Feet (20 oz.)
3/16" x 1 1/2"	4.6	11.9
3/16" x 1 3/4"	3.9	10.2
1/4" x 1"	5.2	13.3
1/4" x 1 1/4"	4.1	10.7
1/4" x 1 1/2"	3.4	8.9
1/4" x 1 3/4"	3.0	7.6
1/2" x 1"	2.6	6.7

PHYSICAL PROPERTIES

		POLYFLEX-93 WITH STATIC MIXER		
Resin Type		Two-component Polyurea		
Color		"A" Component (ISO) Amber	"B" Component (Poly)- Gray	Mixed- Concrete Gray
Weight	Per Gallon	10.67 lbs		
	Per Liter	1.28 kg		
Solids	By Weight	100%		
	By Volume	100%		
Volatile Organic Compounds		<10 g/l Mixed		
Practical Coverage (22 oz. cartridge)		1/4" x 1" depth; 13.3 feet		
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Light Traffic	90 minutes		
	Heavy Traffic	12-16 hours		
Storage Stability		Unopened containers 60-90°F		
Shelf Life		18 months		
Safety Information		For industrial or commercial use only. Keep out of reach of children. For additional information, see SDS		

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

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Form: ARJ-2141
Rev.: 102720