



SEAL KRETE® HIGH PERFORMANCE FAST-CURE POLYUREA JOINT FILLER

DESCRIPTION AND USES

SEAL-KRETE® High Performance Fast-Cure Polyurea Joint Filler is a two-component polyurea joint filler designed for heavy duty traffic and freezer applications. It is solvent free, flexible and with its low viscosity and self-leveling design, allows for 10-15% movement of installed joint width. It may be used in temperatures between -40 to 120°F (-40 to 49°C).

- Treats moving cracks
- Used to fill tooled interior/exterior control joints or new construction saw joints on horizontal concrete surfaces
- Protects joint edges from spalling due to wheeled traffic
- For best performance, the maximum joint width is 3/4 in. (19 mm) and joint depth should be a minimum of 3 times the width for industrial floor applications receiving heavy duty vehicle traffic
- Minimum depth can be reduced to 1/2 in. (13 mm), for foot traffic
- May be used for exterior applications when minimal joint movement from thermal cycling will occur
- Keeps joints free of debris and provides a continuous surface for weight loading

NOTE: This product is highly sensitive to moisture and cannot be used if dampness is present.

PRODUCT FEATURES AND BENEFITS

- Treated joints can be opened to foot and light vehicular traffic in 90 minutes at 75°F (24°C)
- The repaired crack or control joint can be shaved or sanded within a minimum of 60 minutes at 75°F (24°C)
- Self-leveling, low viscosity system
- Wide application and service temperature range, including freezer applications
- Acceptable for use in USDA inspected facilities

PRODUCT

DESCRIPTION	SKU
9 Oz.	852009

PRODUCT APPLICATION

MIXING

Shake the cartridge vigorously for 60 seconds, then stand cartridge upright for at least 1 minute allowing any bubbles to rise to the top. Insert cartridge into the dispenser. Make sure it is properly positioned with the shoulder of the cartridge flush with the front/top bracket of the dispenser. Point upward at a 45° angle. Remove the plastic cap and plug from the top of the cartridge. **IMPORTANT:** Before attaching nozzle, balance the cartridge by slowly dispensing a small amount of material into a disposable container until both components flow evenly from the cartridge. Install mixing nozzle onto cartridge.

PRODUCT APPLICATION (cont.)

MIXING (cont.)

Continue to point the nozzle upward away from yourself and others while slowly applying pressure to dispenser moving any bubbles and product up through the nozzle until it reaches the tip. Dispense the first full stroke of material into disposable container. The cartridge is now purged and ready for use.

NOTE: Schedule dispensing to consume an entire cartridge at one time with no interruption of flow to prevent material from hardening in mixing nozzle. If problems arise while dispensing product, replace the nozzle as the product may have begun to cure in the nozzle which will affect the mix ratio. Never transfer a used nozzle to a new cartridge. Repeat the cartridge balancing steps listed above after replacing the nozzle.

APPLICATION TO JOINT

Use for exterior and interior control joints or moving cracks – Fast-Cure Polyurea Joint Filler is not intended for joints subject to high movement but will accommodate 10-15% movement. Concrete should be at least 28 days old and bonding surface must be dry.

- Heavy Duty Traffic Areas: The joint width should be a maximum of 3/4 in. (19 mm); The depth should be a minimum of 3 times the width, or 2.2 in. (57 mm)
- Light Foot Traffic Areas: The joint width should be a maximum of 3/4 in. (19 mm); The depth should be a minimum of 1/2 in. (13 mm)

Repairing Cracks Or Filling Control Joints

Substrate and environment must be completely dry without any presence of moisture prior to usage. To fill cracks, use a saw or grinder with a dry diamond or concrete abrasive blade and cut along the crack opening it up to 1/8 in. to 1/4 in. wide. The edges must be a 90° angle to the surface (see Figure 2) to avoid a feathered edge (see Figure 1). See Joint Preparation section above for joint width/depth information. To repair a control joint, fill all spalls with polyurethane and allow to cure. Recut the control joint to remove all filler materials and to reshape the spall repairs.

FIGURE 1

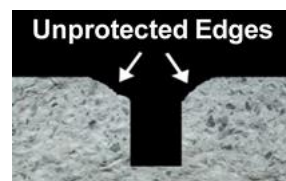


FIGURE 2





SEAL KRETE® HIGH PERFORMANCE FAST-CURE POLYUREA JOINT FILLER

PRODUCT APPLICATION (cont.)

Repairing Cracks Or Filling Control Joints (cont.)

Blow out and remove all dust, dirt, debris, oil and any other contaminant from the control joint or crack. Use backer rod or kiln dried sand prior to application of adhesive. Allow sufficient depth for joint filler based upon minimum recommended depth of filler. Place mixing nozzle directly over the 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.

For joints to be shaved, overfill the crack/joint so that material is slightly higher than the face of the concrete slab under repair. Allow product to cure for a minimum of 60 minutes at 75°F (24°C) then use a sharp floor scraper to shave excess material from top surface. Full cure times are temperature dependent.

CLEAN-UP

Always wear appropriate protective equipment such as safety glasses and gloves. Clean uncured materials from tools and equipment using a mild solvent. Cured material can only be removed mechanically.

LIMITATIONS & WARNINGS

Not for use in expansion joints. Color varies during cure and may change in exterior applications. Substrate and environment must be completely dry with no moisture present prior to application. Product should not be stored once opened as exposure to moisture greatly reduces shelf life. Cartridge balancing and crack repair instructions must be strictly followed. Not intended for exterior or interior joints that are subject to high movement. Before applying a topcoat, it is recommended that the user check with coating manufacturer for compatibility with polyurea based products.



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FAST-CURE POLYUREA JOINT FILLER**

PHYSICAL PROPERTIES

		RESULT @ 75°F		
Gel Time 60 Gram Mass ASTM C881		180 seconds (Gel time may be lower than the minimum required for ASTM C881)		
Tack Free Cure Time ASTM D2377		28 minutes		
Mixed Viscosity ASTM M2393		1,5000 cP (Measured at 30 seconds)		
Tensile Strength ASTM D412		7 days: 1,200 psi (8.3 MPa)		
Tensile Elongation ASTM D412		7 days: 82%		
Bond Strength ASTM C882		2 days: 400 psi (2.8 MPa)		
Shore A Hardness ASTM D2240		75-80		
Adhesion to Concrete ASTM D4541		275 psi (1.5 MPa)		
		Working Time	Trim/Shave Time	Full Cure
Cure Schedule (Base Material Temperature)	0°F (-18°C)	5 minutes	6 hours	48 hours
	78°F (24°C)	3.5 minutes	60 minutes	24 hours
	120°F (49°C)	1.5 minutes	20 minutes	12 hours
Mix Ratio		1:1		
Shelf Life		18 months when stored in unopened containers In dry conditions. Store between 60°F (16 °C) and 90 °F (32 °C).		

(*Working and full cure times are approximate, may be linearly interpolated between listed temperatures and are based on cartridge/nozzle system performance. Working time is based on material conditioned to 75 °F (24 °C).
Application Temperature: Substrate and ambient air temperature should be between -40 to 120 °F (-40 to 49 °C).
When ambient or base material temperature falls below 40 °F (4 °C), condition the adhesive to 40 to 85 °F (4 to 29 °C) prior to use.
Trim/Shave times are estimates and based on 1/2 in. (13 mm) bead. At -40 °F (-40 °C) trim/shave time is approximately 10 hours.)

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