



RAINBOW

SOLVENT FREE POLYUREA JOINT FILLER

PRODUCT NUMBER	UP-190
TYPE	Two components solvent free polyurea based on polyamine resin and polyisocyanate hardener.
USES	Designed to protect the brittle joint edges of industrial floor.
CHARACTERISTICS	<ol style="list-style-type: none">1. 100% volume solid, no VOC emissions.2. Tack free within minutes and shave on 20 minutes and open to walk in less than an hour.3. Self-leveling, low viscosity system.4. Easy to pigmented with consistent color and equal viscosity of A and B sides for easy mixing.
COLOR	Gray
DENSITY	1.05 kg/L (mix, 25 °C)
VISCOSITY	400 mPa.s (Base, 25 °C) 600 mPa.s (Hardener, 25 °C)
DRYING TIME	Tack free 5 min. Shave time 20min. (25 °C)
MIX RATIO	1:1 (by Volume)
NON-VOLATILE MATTER	Above 99 %
GEL TIME	40-50 Sec (100mL mix, 25 °C)
HARDENESS	ShoreA 90 (ASTM D2240)
TENSILE STRENGTH	100Kgf/cm ² (ASTMD638)
ELONGATION	400% (ASTM D638)
ADHESION	300psi (destroyed on concrete) (ASTM D4541)
STORAGE SHELF LIFE	12 months under normal storage conditions.
APPLICATION	<ul style="list-style-type: none">● Joint Preparation<ol style="list-style-type: none">1. Use for control joints or moving cracks. Concrete should be at least 28 days old, or at a minimum, all release agents must be removed and bonding surface must be dry.● Cartridge Preparation<ol style="list-style-type: none">1. Shake the cartridge vigorously, then stand cartridge upright for allowing any bubbles to rise to the top.2. 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. Remove the plastic cap and plug from the top of the cartridge. <p>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.</p> <ol style="list-style-type: none">3. 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.

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4. Dispense this 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 you have any problems in dispensing product, replace the nozzle; 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.

5. Blow out and remove all dust, dirt, debris, oil and any other contaminant from the control joint or crack. For joints to be shaved, over-fill the crack/joint so that material is slightly higher than the face of the concrete slab you are repairing.
 6. To cure for a minimum of 20 minutes at 77 °F (25 °C) then use a sharp floor scraper to shave excess material from top surface.
- UP-190 can be applied on two components mixing machine.

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