



FlexKRETE 102

Thermoset Vinyl Polymer

Description FlexKrete 102 is a multi-purpose, two-component, thermoset vinyl polymer, formulated for early high strength, quick set times, and structural bonding to concrete, masonry, metals, wood, etc.

- Where to Use**
- Repairs broken concrete, cracks, potholes, joints, spalls, vertical, overhead
 - Rebuild curbs, decks, docks, floors, platforms, parking surfaces & structures, ramps, runways, sidewalks, slabs, steps, stairways, road & bridge
 - Non-skid, broadcast, coating for anchor bolts and posts

- Advantages**
- Return repair areas to traffic in less than 1 hour or 15 minutes w/ FlexTEMP
 - Use in cold weather and freezer rooms below -37° F (traffic in 1-3 hours)
 - 3-times harder than concrete at 10,000 psi
 - Restore integrity of distressed concrete
 - Feather edge or use full depth, doesn't crack or pop-out

Theoretical Coverage 1-five gal. pail yields approx. 22 gals. or 3 cu. ft. of repair material. For broadcast, approx. 50-100 sf per gallon depending on type and porosity of substrate. Yield may vary based on aggregate.

1Gallon of FlexKRETE + 4-g #3 Medium Grade Sand =128 sf @ 1/16" avg. depth
64 sf @ 1/8" average depth | 32 sf @ 1/4" average depth
16 sf @ 1/2" average depth | 8 sf @ 1" average depth

Packaging 5 gallon steel pail, 1-gallon kits (containing FlexKRETE, catalyst, FlexPRIME, aggregate, mixing pails, shipped in 5 gallon pail)

Shipping weight (resin only) per gallon = 9.2 pounds (4.1 kilograms)

Physical Data	Solids by weight: approx @ 77°	99%
	Solids by volume: approx.. @77°	98% Specific Gravity
	Gravity @ 77°	1.08
	Viscosity @ 77°	500-600 cps
	Flash Point: (ASTM-D-93 open cup)	141° F
	Pot life w/ 80% aggregate:	@ 77° approx. 20 min. @100° approx. 12 min.
	Pot life w/o aggregate:	@ 77° approx. 13 min. @100° approx.7 min.
	Linear Shrinkage	Filled: 0 Unfilled: 1.1%
	Tensile Modulus (ASTM D 790)	182,000 psi
	Tensile Strength (ASTM D 638)	3,530 lb/in 2
	Flexural Modulus (ASTM D 790)	390,000 psi
	Flexural Strength (ASTM D 790)	7,340 lb/in 2
	Elongation % (ASTM D 638)	30%
	Water Absorption (ATSM D 570)	0.64%
	Compressive Strength	>10,000 psi
	TXDOT-Tex614-J	350 psi
	Hardness-Shore D (ASTM D2240)	0.64%
	VOC:	0
Temperature Limits:	Continuous 175° F Intermittent 220° F	

Chemical Resistance	EXPOSURE	IMMERSION	SPLASH & SPILL
	ACIDS		GOOD
ALKALIES		GOOD	EXCELLENT
PETROLEUM		GOOD	GOOD
SALTWATER		EXCELLENT	EXCELLENT
WATER		EXCELLENT	EXCELLENT

NOTE: For specific harsh chemical environments, contact FlexKRETE.

Shelf Life 1 year in original unopened container.

How to Use Surface Prep	CLEAN SURFACE: Cut or chip vertical lip around repair area to 1/4" depth or more. Remove dirt, debris, paint and contaminants to produce a clean, dry solid base. Mechanically clean area with blaster, scarifier, chipping hammer, grinder or wire wheel as needed. Vacuum or blow clean to remove excess dust.
Horizontal Surface	<p>FLEXPRIME: Mix equal parts A & B and apply very thin coat to prepped area using brush, roller or sprayer (avoid puddles/ridges). Thin w/ 10%-20% acetone for easy application and penetration. Allow FlexPRIME to become very tacky before applying FlexKRETE.</p> <p>FLEXKRETE: Open pail, power-mix with corded drill to disperse material.</p> <p>MEASURE: Measure and pour amount needed into clean mixing pail.</p> <p>CATALYZE: Loosen catalyst bottle lid, fill chamber with amount needed. Remove lid and pour catalyst into mixing pail, power-mix for 30 seconds.</p> <p>MEASURE & ADD AGGREGATE: Add 3 to 3.5 parts clean dry sand into mixing pail containing catalyzed FlexKRETE, then power-mix until well blended.</p> <p>APPLY MATERIAL: Pour into void and fill flush, pushing firmly into voids. Trowel smooth using long, smooth strokes. Sprinkle sand onto wet surface to reduce tack</p>
Vertical & Overhead	<p>Same as Horizontal EXCEPT: SPECIAL PRIMING: Allow FlexPRIME to become very tacky before applying FlexKRETE to achieve chemical bond. Catalyzed FK may be substituted for FlexPRIME on dry concrete. In cold temps, use torch to heat up concrete before applying FlexPrime, allowing primer to set up quicker.</p> <p>VERTICAL APPLICATIONS: Mix catalyzed FlexKRETE w/ 2-parts blast sand + 2 to 3-parts fumed silica. 3-parts fumed silica produces a stiff, doughy consistency to be hand-placed and troweled smooth. 2-parts fumed silica + 2-parts sand produces a less-stiff material and recommended as a good starting point to evaluate ratios needed.</p> <p>OVERHEAD APPLICATIONS: After measuring & catalyzing FlexKRETE, mix 1-part blast sand and 2 to 3-parts fumed silica. If material is too heavy, decrease amount or eliminate sand, and use fumed silica only.</p> <p>For stronger adhesive, mix 1-part catalyzed FlexKRETE w/ 1-part fumed silica.</p>
Overlays, Self-leveling/ Slurry-Broadcast	<p>Same as Horizontal, then MEASURE & ADD AGGREGATE: Add 1.5 to 2-parts clean dry sand into mixing pail containing catalyzed FlexKRETE, then power-mix until well blended.</p> <p>APPLY MATERIAL: Pour ribbon of slurry-mix on repair area w/ notched squeegee or gauge rake, apply material to desired depth. Immediately broadcast w/ aggregate and allow curing.</p> <p>SELF-LEVELING: Pour material onto surface and leave alone, or for a fine slurry-broadcast repair, immediately broadcast with aggregate and allow curing.</p>
Coating with Broadcast	<p>APPLY CATALYZED FLEXKRETE: Pour Ribbon of material onto repair area. Using a 3/8" roller or squeegee, apply the material to desired depth. Normal thicknesses for coating-broadcasts are 10-mil to 20-mils. This translates to 80-160 sq. ft. per gallon depending on broadcast material and substrate condition. Back roll material and then immediately broadcast.</p> <p>APPLY BROADCAST: Immediately broadcast to refusal with aggregate and allow curing. Sweep excess aggregate from surface & open to traffic.</p> <p>TOPCOAT: A final topcoat may be applied, such as FlexAspartic or FlexSealer.</p>

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • FOR INDUSTRIAL USE ONLY FOR PROFESSIONAL

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