



PRODUCT DATA SHEET

Version 0000.2 - 2025 | SpallKRETE

Structural Concrete Repair

DESCRIPTION:

SpallKRETE is a three-component, thermoset vinyl polymer, formulated for early high strength, quick set times, and structural bonding to concrete. SpallKRETE is a suitable material for repair of damaged concrete pavement that has been properly prepared.

SpallKRETE can be mixed in less than 5 minutes, bonds tenaciously to concrete, requires no external heat for thermosetting, and cures strong enough to put back into service in less than 2 hours after mixing.

USES:

Spalls on joints or within a slab. Preparation for spall repairs shall consist of sawing the concrete in a square or rectangle at least two inches beyond any unsound concrete that is identified by visual and / or tap sounding with a chain or hammer. The repair area should be at least 3 inches deep throughout the repair, or deeper, down to the depth of sound concrete. The repair area can then be filled by using the SpallKRETE installation process.

MATERIALS:

SpallKRETE kits contain a two-component primer (SpallPRIME), a liquid base binder (SpallKRETE) with an activation CATALYST and an additional colder weather ADDITIVE, and a 50 lb bag of specially blended aggregates per gallon of SpallKRETE liquid.

SpallKRETE is packaged in 2.7 CF kits

SK 2.7CF Kit

- (1) 5 gallon international shipping pail containing five gallons of SpallKRETE liquid resin
- (1) 7 ounce measuring bottle of Catalyst
- (1) 5 ounce bottle of cold weather Additive
- (1) 2-component 1/2 gallon kit of SpallPRIME
- (5) 50 lbs bags of specially formulated aggregates

PHYSICAL DATA:

PROPERTIES	Result	TEST METHOD
VOC Volatile Organic Chemicals	<.01	
Solids by weight: approx. 77	99%	
Solids by volume: approx. 77	98% Specific	
Gravity	1.08	
Flash Point	141F	ASTM-D-93 open cup
Linear Shrinkage	Filled 0 / Unfilled 1.1%	
Resilience by Vertical Rebound	38%	ASTM D2632-15

Tensile Strength	1054 lb/in 2	ASTM D638-22
Tensile Elongation	58%	ASTM D638-22
Compressive Set (Rebound)	99.7	ASTM D695-23
Compressive Strength	11412 PSI	ASTM D395-18
Bond Strength to Concrete	Peak Load 16268 /Bond 1236	ASTM C882.23
Impact Resistance Testing -20F	83 ft-lbf	SAE J323 and ASTM D5420-21
Water Absorption	0.64%	ASTM D570
Temperature Limits Continuous	175 F	
Temperature Limits Intermittent	220 F	
CHEMICAL RESISTANCE		
EXPOSURE	IMMERSION	SPLASH & SPILL
ACIDS	Good	Excellent
AKALIDES	Good	Excellent
PETROLEUM	Good	Good
SALTWATER	Excellent	Excellent
WATER	Excellent	Excellent
<i>NOTE: For specific harsh chemical environments, contact SpallKRETE.</i>		

Shelf Life at 70 degrees	Six months in the original unopened container in dry, dark area
Shelf Life at 40 degrees	Increases shelf life

INSTALLATION METHODS:

Weather Limitations

Spall repairs shall be performed when the concrete is dry and the humidity level is below 99%. SpallKRETE will not set up without external heat at temperatures below 32 F. At temperatures above 95 F, SpallKRETE will cure extremely fast. Keeping the materials cool can also assist in slowing down the cure time.

SpallKRETE

How to Use - Follow this order

PREPARE SURFACE: Cut and chip out unsound concrete in a square or rectangle to 3" depth or more. If the repair is on a joint, the cut-out of the repair should be at least 6" back from the closest joint edge and at least 12" long. Ensure through mechanical means that the concrete is clean, dry, sound, and contaminant free. Vacuum or blow clean to remove excess dust from the clean dry white concrete.

PRIMING: Mix equal parts of SpallPRIME **A & B** for 1 minute and apply a very thin coat to the prepped area using a brush, roller or sprayer. Do not leave puddles or leave it on thick. To enable spraying, or to make brushing thinly easier, you may thin the A&B mixture by adding in 10% to 20% acetone by volume and stir for a few moments. For best results allow the primer to become very tacky before applying SpallKRETE.

OPEN SpallKRETE: Open pail, or 1 gallon can, and PRE-MIX power-mix with corded drill to disperse material. Then pour each gallon of SpallKRETE into a clean mixing pail or muck tub or grout mixer as needed.

CATALYZE: Loosen catalyst bottle lid, fill chamber with amount needed as described on the bottle. Remove lid and pour catalyst into mixing pail, power-mix for 30 seconds to 1 minute. The longer it is mixed, the faster it will thermoset. In weather below 65 F you may add the cold weather additive to ensure it cures in less than an hour.

ADD AGGREGATE: Immediately begin power mixing the dry bagged aggregate with the catalysed SpallKRETE until it is well blended. SpallKRETE kits are packaged with a single bag of specially blended aggregate per gallon of SpallKRETE liquid.

APPLY MATERIAL: Pour mixed material into void and use a clean stainless trowel to pack the material firmly into all voids as well as filling any overcuts, and compacting material in all corners and outer edges. Rough it in and then trowel smooth.

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

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SpallKRETE

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