

PRODUCT DATA SHEET

Version 09.20 | FLEXKIT

FLEXKIT

Thermoset Vinyl Polymer



702.580.8617

JESsupply.com

Description FLEXKIT 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, verticle, 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/ Flex X
 - 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 materials. For broadcast, approx. 50-100 sf per gallon depending on type and porosity of substrate. Yield may vary based on aggregate.
 - 1 Gallon of FLEXKIT +4-g #3 Medium Grade Sand =128 sf @ 1/16" avg. depth
 - 64 sf @ 1/8" average depth | 32 sf @ /14" average depth
 - 16sf @ 1/2" average depth | 8 sf @ 1" average depth

Physical Data		
Solids by weight: approx @ 77°		99%
solids by volume: approx @77°		98%
Gravity @ 77°		1.08
Viscosity @ 77°		500-600 cps
Flash Point: (ASTM-D-93 open cup)		141° F
Pot life w/ 8-% aggregate		@77° approx. 20min @100° approx. 12min.
Pot life w/o aggregate:		@77 approx. 13min @100° approx. 7min.
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 9ASTM D 790)		390,00 psi
Flexural Strength (ASTM D 790)		7,340 ;b/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 D 2240)		0.64%
VOC:		0
Temperature Limits:		Continuous 175° F Intermittent 220° F

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

NOTE: For specific harsh chemical enviroments contact JES Supply Co.

STRUCTURAL & CONCRETE REPAIR

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>PRIME 100: Mix equal parts A & B an 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 Prime 100 to become very tacky before applying FLEKKIT.</p> <p>FLEKKIT: 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 FLEKKIT, 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><i>Same as Horizontal EXCEPT: SPECIAL PRIMING:</i> Allow Prime 100 to become very tacky before applying FLEKKIT to achieve chemical bond. Catalyzed FLEKKIT may be substituted for Prime 100 on dry concrete. In cold temps, use torch to heat up concrete before applying Prime 100, allowing primer to set up quicker.</p> <p>VERTICAL APPLICATIONS: Mix catalyzed FLEKKIT w/ 2-parts blast sand + 2 to 3-parts fumed silica. 3-parts fumed silica produces a stiff, doughy consistency to be handed-replaced 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 FLEKKIT, 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 style="text-align: center;"><i>For strong adhesive, mix 1-part catalyzed FLEKKIT w/ 1-part fumed silica</i></p>
Overlays, Self-Leveling / Slurry Broadcast	<p><i>Same as Horizontal, then Measure & ADD AGGREGATE:</i> Add 1.5 to 2-parts clean dry sand into mixing pail containing catalyzed FLEKKIT, *then power-mix until well blended</p> <p>APPLY MATERIAL: pour ribbon of slurry-mix of repair area w/ notched squeegee or gauge rake, apply material to desired depth. Immediately broadcast w/ aggregate and allowing 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> <p>APPLY CATALYZED FLEKKIT: Pour Ribbon of material onto repair area. Using a 3/8" roller or squeegee, apply the material to desired depth. Normal thickness for coating-broadcasts are 10-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 traffic.</p> <p style="text-align: center;">TOPCOAT: A final topcoat may be applied, such as JES Seal</p>

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

All information provided by JES Supply Co. concerning JES Supply Co. products, including but not limited to, any recommendations and advice relating to the application and use of JES Supply Co. products is given in good faith based on JES Supply Co.'s current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with JES Supply Co. instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of JES Supply Co.'s control are such that JES Supply Co. assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall and legal relationship be created by or arise from the provisions of such informations, advice recommendations or instructions related to its products. Users of JES Supply Co. product(s) must test the product(s) for suitability for intended application and purpose before proceeding with full application of and conditions of sale, which are available at <https://jessupply.com> or calling 702.580.8617.

JES Supply Co. warrants this product for 1 year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. JES SUPPLY CO. SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES JES SUPPLY CO. SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.