



**SEAL KRETE® HIGH PERFORMANCE FLEX-COAT**

**DESCRIPTION AND USES**

Flex-Coat is a clear VOC compliant, two component, high solids Polyurea primer suitable for use with a variety of topcoats. It can also be used as a basecoat for color aggregate or color flake finishes.

**PRODUCTS**

SKU	DESCRIPTION
324243	Part A (Clear 1 Gallon in 1 Gallon Container)
324246	Part B (Clear 2 Gallons in 3.5 Gallon Container)
324247	Part B Armor Grey
324248	Part B Sahara Desert
324249	Part B Custom Color *

\*Made To Order

**RECOMMENDED TOPCOATS**

- Poly-Shell 7000
- Poly-Shell 1000

**PRODUCT APPLICATION**

**READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT**

**SURFACE PREPARATION**

**NEW CONCRETE/PREVIOUSLY COATED CONCRETE:** New concrete should be allowed to cure for a minimum of 28 days. The concrete must be structurally sound, dry, and free of grease, oils, dust, curing compounds and other coatings or contaminants (SSPC-SP1). Surface laitance must be removed. Rising moisture vapor emission rate must not exceed 3 lb. per 1000 sq. ft. over a 24 hour period as measured by calcium chloride test method ASTM F-1869.

The application area must be completely free of sealers, oils, dirt, paint, alkali, penetrating sealers, or any foreign materials that would prevent Flex-Coat from penetrating the concrete surface. The recommended substrate should have a minimum concrete surface profile (CSP) of 2-3 in accordance to the ICRI Guideline No. 03732. Contact ICRI at [www.ICRI.org](http://www.ICRI.org) for more information on these surface profiles. Surface must be dry prior to application of BuildKote.

**MIXING**

Both components should be pre conditioned to a minimum of 50°F (10°C) prior to use.

Thoroughly mix each component separately before combining.

If only using part of a container, be sure to use a separate mixer blade for each component to avoid cross contamination.

**PRODUCT APPLICATION (cont.)**

**MIXING (cont.)**

**NOTE:** The Part B component uses a moisture scavenger in its formulation to pull out any moisture which may have entered during the filling process. When this occurs, the scavenger settles out as a solid in the container. There is no need to try and mix this hard settled material into the liquid. Keep your paddle mixer above the packed out scavenger and pre-mix as normal. It is still required to pre-mix the material prior to use. Another option would be to transfer the material to a different mixing bucket, then mix as normal.

Pour the Part A and Part B components together in a clean, dry five gallon container and power mix at 500-700 rpm for a minimum of two minutes. Do not entrain air into the mixing. Do not mix more material than can be applied in 20-25 minutes. If using less than a full container, combine the components using a mixing ratio of 1:2 by volume, Part A to Part B.

**TINTING**

Tinting is only to be done after Part A and Part B have been thoroughly mixed. If tinting, add 12% by volume of the selected 844 Colorant. (1 quart of tint per 2 gallons of activated material). Power mix until a uniform color is achieved.

If there are any questions on the tint process of this product, please consult our technical service department.

**APPLICATION**

Apply only when air, material and floor temperatures are between -20° to 120°F (-28° to 49°C). Do not apply in direct sunlight or when temperature is rising. Colder environmental conditions can slow the cure of Flex-Coat. For these applications contact Rust-Oleum Technical Service about faster curing options.

Immediately after mixing, pour the material onto the floor in a long, 8 to 12 inch wide stripe.

**NOTE:** Do not scrape the sides or bottom of the container. Use only the material that flows naturally out of the container. Also, do not turn the container upside down and leave on the floor to drain. Doing so may result with unactivated material from the sidewall of the container being applied. This will cause soft spots in the coating.

Use a rubber squeegee to spread the material out and achieve the 80-200 sq.ft./gal. spread rate. Back roll the material smooth using a 3/8" lint free roller with a phenolic core to smooth out the finish.

If being used as a basecoat for a color aggregate or color flake finish, begin to broadcast the desired amount of aggregate or flake unto the coating as soon as the roller application is completed. Do not do any additional rolling after the broadcasting material.



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**PRODUCT APPLICATION (cont.)**

**THINNING**

None required.

**NOTE:** If necessary, can be thinned up to 20 percent with acetone or methyl ethyl ketone.

**CLEAN-UP**

Methyl Ethyl Ketone

**EQUIPMENT RECOMMENDATIONS**

**ROLLER:** Use a high quality 3/8 inch lint-free roller with a phenolic core.

**BRUSH:** Use a disposable natural fiber chip brush, 2-4 inch wide for cut in work.

**SQUEEGEE:** Contact Rust-Oleum for recommendation.

**PERFORMANCE CHARACTERISTICS**

**TENSILE STRENGTH**

METHOD: ASTM D412  
TYPICAL VALUE: 3600

**ELONGATION**

METHOD: ASTM D412  
TYPICAL VALUE: 198

**TEAR STRENGTH (PLI)**

METHOD: ASTM 2240  
TYPICAL VALUE: 350

**FLEXIBILITY (1/8" MANDREL)**

METHOD: ASTM D1737  
RESULT: Pass

**IMPACT RESISTANCE**

METHOD: ASTM D2794  
TYPICAL VALUE: Direct/Reverse, 250/285 inch pounds.

**CHEMICAL RESISTANCE**

<b>CHEMICAL</b>	<b>RESULT (77°F/25°C)</b>
Acetic Acid 100%	C
Acetone	C
Ammonium Hydroxide 50%	RC
Benzene	C
Brine saturated H2O	RC
Chlorinated H2O	R
Clorox(10%) H2O	R
Diesel fuel	RC
Gasoline	RC
Gasoline/5% MTBE	RC
Gasoline/5% Methanol	RC
Hydrochloric Acid 20%	R
Hydrofluoric Acid 10%	NR
Hydraulic fluid (oil)	RC
Isopropyl Alcohol	R
Lactic Acid	RC
MEK	NR
Methanol	R
Methylene Chloride	C
Mineral Spirits	RC
Motor Oil	R
MTBE	C
Muriatic Acid 10%	R
NaCl/H2O 10%	RC
Nitric Acid 20%	NR
Phosphoric Acid 10%	R
Phosphoric Acid 50%	NR
Potassium Hydroxide 10%	R
Potassium Hydroxide 20%	R, Dis
Propylene Carbonate	RC
Skydrol	C
Sodium Hydroxide 25%	R
Sodium Hydroxide 50%	R, Dis
Sodium Hypchlorite 10%	R
Sodium Bicarbonate	RC
Stearic Acid	R
Sugar/H2O	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	NR
Toluene	RC
1, 1,1-Trichlorethane	C
Trisodium Phosphate	RC
Vinegar/H2O 5%	R
H2O	R
H2O 14 days at 180°F	R
Xylene	RC

**Chemical Resistance: Chart Key**

R=recommended/little or no visible damage  
 RC=recommended conditional/some effect, swelling or discoloration  
 C=Conditional/Cracking-wash within one hour of spillage to avoid affects  
 NR=Not recommended  
 Dis=discolorative

		<b>TECHNICAL DATA</b>	<b>SKHP-07</b>
		<b>SEAL KRETE® HIGH PERFORMANCE FLEX-COAT</b>	

**PHYSICAL PROPERTIES**

<b>Resin Type</b>		Polyurea
<b>Weight</b>	<b>Per Gallon</b>	9.9 lbs.
	<b>Per Liter</b>	1.2 kg
<b>Solids by Volume</b>		98%
<b>Volatile Organic Compounds</b>		<50 g/l**
<b>Mixing Ratio</b>		1:2 (Part A to Part B)
<b>Induction Time</b>		None required
<b>Pot Life</b>		20-25 minutes
<b>Recommended Dry Film Thickness (DFT)</b>		8-20 mils
<b>Practical Coverage Rate at Recommended DFT</b>		80-200 sq.ft./gal. Coverage rate can vary depending on the texture and porosity of the concrete
<b>Dry Times @ 70-80°F (21-27°C) and 50% Relative Humidity†</b>	<b>Recoat</b>	2-12 hours*
	<b>Light Traffic</b>	2-4 hours
	<b>Full Traffic</b>	24 hours
<b>Shelf Life</b>		12 months
<b>Safety Information</b>		See SDS

Calculated values are shown and may vary slightly from the actual manufactured material.

† Extreme cold temperatures may slow cure times.

\* If 12 hour recoat time has elapsed, the coating must be sanded prior to topcoating.

\*\* Calculated Applied VOC

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