



# SEAL KRETE® HIGH PERFORMANCE POLY-SHELL™ 7000

## DESCRIPTION AND USES

SEAL-KRETE® Poly-Shell™ 7000 is a two component, polyaspartic polyurea coating. It dries quickly and provides rapid return to service. It is resistant to heat (temperatures up to 350°F), UV rays, and a variety of harsh chemicals, including salt, oil, and gasoline. Poly-Shell 7000 is also flexible and allows for natural concrete movement without cracking or peeling, making this system ideal for either indoor or outdoor applications. Poly-Shell 7000 can be used as a clear finish or tinted to finish color.

## PRODUCT FEATURES AND BENEFITS

- VOC < 50 g/l, SCAQMD Approved
- Versatile – Coatings, Broadcast Floors, Chip Floors, Slurry/Broadcast
- Rapid Return to Service in 24 hours
- Outstanding Color retention in Gloss or Satin Finish
- Highly Chemical Resistant (for more information, see chart on page 2)
- Convenient 1:1 mixing ratio
- Designed for interior and exterior applications

## PRODUCTS

SKU	DESCRIPTION (Clear)
SK243002	Polly-Shell 7000 Gloss Kit
SK244002	Polly-Shell 7000 Satin Kit

## PRODUCT APPLICATION

### READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT

### SURFACE PREPARATION

The concrete surface must be free of all dirt, grease, oil, fats, and other contamination. Remove surface contamination by cleaning with Rust-Oleum® Pro Cleaner Degreaser, or other suitable cleaner. Rinse thoroughly with clean, fresh water and allowed to dry.

**NEW 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. 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 preferred method of surface preparation is to mechanically abrade the floor by diamond grinding to achieve a final 80–120 grit finish, reference profile CSP-2 according to ICRI.

**PREVIOUSLY COATED:** Previously coated concrete must be in good sound condition with the existing coating tightly adhering to the concrete. In addition to the aforementioned cleaning the existing coating must be abraded to dull the finish and produce a slight surface profile. Remove all sanding dust by vacuum. The Poly-Shell 7000 is compatible with most coatings, but a test patch is suggested. Concrete must be visibly dry at time of application.

## PRODUCT APPLICATION (cont.)

### MIXING EQUIPMENT

Low speed drill and spiral mixing wand.

**Important:** Hand mixing will produce inconsistent results and is not an approved method.

### MIXING

**NOTE:** Before starting, ensure that the material, concrete surface, and the ambient air are all at 30-90°F. Mixing ratio is 1 part A to 1 part B.

Pre-mix both A and B sides prior to combining. Add part “A” to the mixing container. Add part “B” to the mixing container and mix for 60-90 seconds.

### DO NOT THIN

### TINTING (Clear)

Pre-mix Universal Tint Packs prior to adding into floor coatings. Add Universal Tint Packs at 8 oz. per gallon of mixed floor coating material and combine thoroughly via power mix to achieve uniform colorant dispersal.

**NOTE:** Some colors, including safety colors, may require additional coats if desired coverage is not achieved in the first application.

**\*NOT FOR USE IN WATER BASED COATINGS\***

### APPLICATION EQUIPMENT

- 24” flat blade squeegee
- 18”-3/8” lint free roller

### APPLICATION

Mix only what you can squeegee and back roll within 35-40 minutes (approximately 1 gallon of mixed material per crew of two applicators wearing spiked shoes). Do not aerate the mix.

Before starting, ensure that the material, concrete surface, and the ambient air are all at 30-90°F. Do not apply in direct sunlight or when temperature is rising. Colder environmental conditions can slow the cure of Poly-Shell 7000. For application outside of this temperature range please contact Rust-Oleum Technical Service. Wearing spiked shoes, immediately pour mixed Poly-Shell 7000 on the floor in ribbons. Spread using a squeegee and then back roll using a short nap lint-free roller.

**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 120 to 240 sq. ft./gal. spread rate, depending on the texture and porosity of the concrete. Back roll the material smooth using a 3/8” lint free roller with a phenolic core to smooth out the finish.



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POLY-SHELL™ 7000**

**PRODUCT APPLICATION (cont.)**

**CLEANUP**

Clean tools and application equipment immediately after use with active solvent like xylene (in SCAQMD use acetone only). Clean spills or drips while still wet with solvent. Dried product will require mechanical abrasion for removal.

**PERFORMANCE CHARACTERISTICS**

**COMPRESSIVE STRENGTH**

METHOD: ASTM C695  
RESULT: @ 24 hours 6,700 psi  
@ 7 days 7,950 psi

**TENSILE STRENGTH**

METHOD: ASTM D638  
RESULT: 4500-5200 psi

**BOND STRENGTH TO CONCRETE**

METHOD: ASTM D4541  
RESULT: 725 psi

**TABER ABRASION**

METHOD: ASTM 4060, CS 17  
RESULT: 3 mg.

**FLAMMABILITY**

METHOD: ASTM D635  
RESULT: Self-extinguishing

**KONIG HARDNESS**

METHOD: ASTM D4366  
RESULT: 137

**ELONGATION**

METHOD: ASTM D638  
RESULT: 25-35%

**WATER ABSORPTION**

METHOD: ASTM D570  
RESULT: (24 hours) <0.5%

**MONOLITHIC SURFACING**

METHOD: ASTM C722  
RESULT: Pass

**IMPACT RESISTANCE**

METHOD: ASTM D2794  
RESULT: Pass

This product complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities. This coating is impervious to moisture and easily cleaned and sanitized. Meets USDA requirements for incidental food contact.

**CHEMICAL RESISTANCE**

CHEMICAL	RESULT (77°F/25°C)
Acetic Acid 100%	C
Acetone	C
Ammonium Hydroxide 50%	RC
Benzene	C
Brine saturated H2O	R
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	RC
Methanol	R
Methylene Chloride	C
Mineral Spirits	RC
Motor Oil	R
MTBE	C
Muriatic Acid 10%	R
NaCl/H2O 10%	R
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	R
Stearic Acid	R
Sugar/H2O	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	RC
Toluene	R
1, 1,1-Trichlorethane	C
Trisodium Phosphate	R
Vinegar/H2O 5%	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

**TECHNICAL DATA**

**SKHP-04**



**SEAL KRETE® HIGH PERFORMANCE POLY-SHELL™ 7000**

**PHYSICAL PROPERTIES**

		<b>POLY-SHELL 7000</b>
<b>Resin Type</b>		Polyaspartic Polyurea
<b>Pigment Type</b>		Varies depending on color
<b>Solvents</b>		Benzyl Alcohol
<b>Weight*</b>	<b>Per Gallon</b>	9.59 lbs.
	<b>Per Liter</b>	1.1 kg
<b>Solids*</b>	<b>By Weight</b>	70%
	<b>By Volume</b>	70%
<b>Volatile Organic Compounds*</b>		<50 g/l
<b>Gloss Level</b>		Satin: 70-82 @ 60° Gloss: 80-95 @ 60° Substrate texture and porosity and application rate can affect gloss
<b>Recommended Dry Film Thickness (DFT) Per Coat</b>		4-8 mils
<b>Practical Coverage (assume 15% material loss)</b>		120-240 sq.ft./gal. Coverage rates will vary based on application method.
<b>Mixing Ratio</b>		1:1
<b>Pot Life @ 70-80°F (21-27°C) and 50% Relative Humidity</b>		35-40 minutes
<b>Re-Coat Window (Min./Max)</b>		2 hours/12 hours
<b>Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity</b>	<b>Foot Traffic</b>	2-4 hours
	<b>Vehicle Traffic</b>	24 hours
	<b>Full Cure**</b>	7 days
<b>Shelf Life</b>		5 years
<b>Flash Point</b>		>200°F (93°C)
<b>WARNING!</b>		<b>CAUSES NOSE, THROAT, EYE AND SKIN IRRITATION. CAUSES EYE AND SKIN BURNS. HARMFUL IF SWALLOWED. MAY CAUSE ASTHMA, SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES. FOR INDUSTRIAL OR COMMERCIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. SEE THE PRODUCT SAFETY DATA SHEET (SDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION.</b>
<b>Safety Information</b>		For additional information, see SDS

\* Activated material

\*\*Coating achieves its full physical and chemical resistant properties.

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

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.



Rust-Oleum Corporation  
11 Hawthorn Parkway  
Vernon Hills, Illinois 60061

Phone: 800-323-7357  
www.hp.seal-krete.com

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