



SEAL KRETE® HIGH PERFORMANCE POLY-SHELL™ 7000

DESCRIPTION AND USES

SEAL-KRETE® Poly-Shell™ 7000 utilizes the latest development in Polyaspartic coating technology and is the most durable coating available. It dries quickly and provides unparalleled rapid return to service. It is extremely resistant to heat (temps 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.

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
- Meets USDA and FDA requirements for incidental food contact

PRODUCTS

DESCRIPTION (Clear)	2 Gallons	10 Gallons
Polly-Shell 7000 Gloss Kit	243002	243005
Polly-Shell 7000 Satin Kit	244002	244005

PRODUCT APPLICATION

READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT

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. If patching is required, use SEAL-KRETE Fast Cure High Strength Concrete Repair

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding or sweep blasting to create a surface profile. 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

Add 16 ounces (1/2 can) of Poly-Shell color pack to activated 2 gallon kit (Parts A and B) and stir for 3 minutes. Carefully monitor amount of colorant added to each gallon to ensure color is uniform. On large projects, make sure all colorant is from the same lot # or intermix all colorants. Tint is to be added in the field at the time of application.

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. 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.

CLEAN UP

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.



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CHEMICAL RESISTANCE

CHEMICAL	RESULT (77°F/25°C)
Acetic Acid 100%	C
Acetone	C
Ammonium Hydroxide 50%	RC
Benzene	C
Brine saturated H ₂ O	R
Chlorinated H ₂ O	R
Clorox(10%) H ₂ O	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/H ₂ O 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 Hypochlorite 10%	R
Sodium Bicarbonate	R
Stearic Acid	R
Sugar/H ₂ O	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	RC
Toluene	R
1, 1,1-Trichlorethane	C
Trisodium Phosphate	R
Vinegar/H ₂ O 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

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



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PHYSICAL PROPERTIES

		POLY-SHELL 7000
Resin Type		Polyaspartic Polyurea
Pigment Type		Varies depending on color
Solvents		Benzyl Alcohol
Weight*	Per Gallon	9.59 lbs.
	Per Liter	1.1 kg
Solids*	By Weight	70%
	By Volume	70%
Volatile Organic Compounds*		<50 g/l
Recommended Dry Film Thickness (DFT) Per Coat		4-8 mils
Practical Coverage (assume 15% material loss)		120-240 sq.ft./gal. Coverage rates will vary based on application method.
Mixing Ratio		1:1
Pot Life @ 70-80°F (21-27°C) and 50% Relative Humidity		35-40 minutes
Re-Coat Window (Min./Max)		2 hours/24 hours
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Foot Traffic	2-4 hours
	Vehicle Traffic	24 hours
	Full Cure**	7 days
Shelf Life		2 year
Flash Point		>200°F (93°C)
WARNING!		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.
Safety Information		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.

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