SEAL KRETE® HIGH PERFORMANCE POLY-SHELL 8000

DESCRIPTION AND USES

Seal-Krete® Poly-Shell™ 8000 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 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

- Fast cure times with excellent adhesion characteristics to a variety of substrates/coatings.
- Gloss finish when cured.
- Extended pot life of 35-40 minutes
- Convenient 1:1 mixing ratio
- Designed for interior and exterior applications
- Topcoat for use on both horizontal and vertical applications
- Topcoat for broadcast floors
- Meets USDA and FDA requirements for incidental food contact

PRODUCTS

DESCRIPTION (Clear)	2 Gallons	5 Gallon Pail
Polly-Shell 8000 A Side	337003	337018
Polly-Shell 8000 B Side	337004	337019

PRODUCT APPLICATION

READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT

NEW CONCRETE: Laitance must be removed by diamond grinding or shot blasting. On concrete that has been cured with curing compounds or has had a hard steel troweled finish, shot blasting, sandblasting or other methods of mechanical preparation will be required. New concrete should be cured for a minimum period of 28 days at 70°F prior to application.

EXISTING CONCRETE: Concrete must be clean and sound. Old coatings and toppings must be removed. Concrete must be clean and free of previous coatings, oil, wax, paint, and other contaminants. The surface of the concrete must be clean and properly profiled to enable the coating to achieve maximum bond. Water soluble contaminants can be hosed off with water. Some water insoluble materials are difficult to remove and may require sandblasting, scabbling, or other methods of removal.

For either new or existing concrete, when preparation is complete, the surface texture should be similar to 60-80 grit sandpaper.

Concrete must be visibly dry at time of application.

PRODUCT APPLICATION (cont.)

MIXING EQUIPMENT

Low speed drill and spiral mixing wand. Must pre- mix prior to use.

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.

APPLICATION EQUIPMENT

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

APPLICATION

Mix only what you can squeegee and back roll within 30-40 minutes (approximately 1 gallon of mixed material per crew of two applicators wearing spiked shoes). Do not aerate the mix.

Wearing spiked shoes, immediately pour mixed Poly-Shell 8000 on the floor in ribbons. Spread using a squeegee and then back roll using a short nap lint-free roller.

Refer to Application Guide or visit hp.seal-krete.com. for detailed application instructions.

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.

Form: ARJ-1661
Rev.: 020819

SEAL KRETE® HIGH PERFORMANCE POLY-SHELL 8000

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/H20	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

PERFORMANCE CHARACTERISTICS

COMPRESSIVE STRENGTH

METHOD: ASTM C695
RESULT: 7950psi

TENSILE STRENGTH

METHOD: ASTM D412
RESULT: 4500-5200 psi

BOND STRENGTH TO CONCRETE

METHOD: ASTM D4541
RESULT: Exceeds tensile strength of concrete (concrete fails first)

TABER ABRASION

METHOD: ASTM 4060, CS 17
RESULT: Loss/1000 cycles = 28 mg.

FLAMMABILITY

METHOD: ASTM D635
RESULT: 1.2 cm./min.

COEFFICIENT OF FRICTION

METHOD: ASTM D2047
RESULT: 0.77 unglazed

FILM HARDNESS, SHORE D

METHOD: ASTM D2240
RESULT: 137

ELONGATION

METHOD: ASTM D412
RESULT: 100

	TECHNICAL DATA	SKHP-01

SEAL KRETE® HIGH PERFORMANCE POLY-SHELL 8000

PHYSICAL PROPERTIES

		POLY-SHELL 8000
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**	80%
	By Volume	80%
Volatile Organic Compounds*		<10 g/l
Recommended Dry Film Thickness (DFT) Per Coat		6-12 mils
Recommended Wet Film Thickness (WFT) Per Coat		7.5-15 mils
Practical Coverage (assume 15% material loss)		100-200 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/12 hours
Dry Times at 70-80°F (21-27ºC) 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.