



# POLY-SHELL 8000

## DESCRIPTION AND USES

Poly-Shell 8000 is a new and improved version of our popular two-component, 80% solids, VOC Compliant, Aliphatic Polyaspartic. 8000 has extended pot life, which allows the installer the opportunity to keep more product in the bucket, mix larger quantities of product, and still have the fast cure time characteristics of Polyaspartics

## FEATURES AND BENEFITS

- ❖ Displays fast cure times with excellent adhesion characteristics to a variety of substrates / coatings.
- ❖ Will provide a glossy smooth finish when cured.
- ❖ Extended open times offer better workability while maintaining a fast cure rate.
- ❖ 100% Polyurea elastomer displays excellent UV, chemical, and abrasion resistance at a wide range of temperatures.
- ❖ Can be applied indoors with minimal disturbance contributed to high VOC levels that are found in most epoxies and polyurethanes.
- ❖ Versatile topcoat for use on both horizontal and vertical applications.
- ❖ Easy to mix 1:1 ratio.
- ❖ Extended POT Life of 35-40 minutes

## AVAILABLE COLORS

Poly-Shell 8000 is sold clear, available to post add tint with 844 colorant.

## PACKAGING

337003	SKHP 2GAL POLYSHELL 8000 A SIDE
337018	SKHP 5GAL POLYSHELL 8000A SIDE
337019	SKHP 5GAL POLYSHELL 8000B SIDE
337004	SKHP 2GAL POLYSHELL 8000 B SIDE

## PRODUCT APPLICATION

### SURFACE PREPARATION

**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, scrapping, 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.

### 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.

### THINNING

No thinning required.



TECHNICAL DATA

POLY-SHELL 8000

PRODUCT APPLICATION (cont.)

APPLICATION EQUIPMENT

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

APPLICATION

Use a flat blade squeegee to spread material over the area at the recommended spread rate. Use 18" roller to evenly spread the material in a North and South direction, and always final cross roll East and West.

CLEAN UP

Acetone can be used to remove material from equipment if it is cleaned before the material has started to set up. Otherwise, stronger solvents will be necessary.

SHELF LIFE

Unopened, properly stored containers: 2 years

SAFETY DATA SHEETS

Contact Seal-Krete HP for SDS.

Table with 2 columns: Chemical, Result (25°C). Lists various chemicals and their compatibility results (e.g., Acetic Acid 100% C, Ammonium Hydroxide 50% RC).

Table with 2 columns: Chemical, Result. Lists chemicals like Stearic Acid, Sugar/H2O, Sulfuric Acid, Toluene, etc., with their respective results (R, RC, C).

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

USDA and FDA certified food safe for incidental food contact.

PERFORMANCE CHARACTERISTICS

COMPRESSIVE STRENGTH

METHOD: ASTM C695
TYPICAL VALUE: 7950psi

TENSILE STRENGTH

METHOD: ASTM D412
TYPICAL VALUE: 4500-5200 psi

BOND STRENGTH TO CONCRETE

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

TABER ABRASION

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

FLAMMABILITY

METHOD: ASTM D635
TYPICAL VALUE: 1.2 cm./min.

COEFFICIENT OF FRICTION

METHOD: ASTM D2047
TYPICAL VALUE: 0.77 unglazed

FILM HARDNESS, SHORE D

METHOD: ASTM D2240
TYPICAL VALUE: 137

ELONGATION

METHOD: ASTM D412
TYPICAL VALUE: 100



TECHNICAL DATA

POLY-SHELL 8000

PHYSICAL PROPERTIES

		POLY-SHELL 8000
<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 lb
	<b>Per Liter</b>	1.1 kg
<b>Solids*</b>	<b>By Weight</b>	80%
	<b>By Volume</b>	80%
<b>Volatile Organic Compounds*</b>		<10 g/l
<b>Recommended Dry Film Thickness (DFT) Per Coat</b>		8-16 mils
<b>Practical Coverage at Recommended DFT</b>		100-200 sf/gallon Coverage will depend on application method
<b>Mixing Ratio</b>		1:1
<b>Induction Period</b>		None
<b>Pot Life @ 70-80°F (21-27°C) &amp; 50% Relative Humidity</b>		30-40 minutes
<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>		2 years
<b>Flash Point</b>		>200°F (93°C)
<b>Safety Information</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>

\* Activated material

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

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

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