



**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 8000 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

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. 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 30-40 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 8000. For application outside of this temperature range please contact Rust-Oleum Technical Service. 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.

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 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

PERFORMANCE CHARACTERISTICS

COMPRESSIVE STRENGTH

METHOD: ASTM C695
 RESULT: 7950 psi

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

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.

TECHNICAL DATA

SKHP-01



**SEAL KRETE® HIGH PERFORMANCE
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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 (21-27°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.

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.



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