



**SEAL KRETE® HIGH PERFORMANCE SURFACE-SHELL™ SR**

**DESCRIPTION AND USES**

SEAL-KRETE® Surface-Shell™ SR is a heavy duty self-leveling slurry-broadcast, anti-slip and HACCP International certified antimicrobial treated cementitious urethane flooring system.

The Surface-Shell SR product is typically installed by factory trained contractors. Be sure you are fully aware of all application procedures and have all the required equipment available prior to beginning the installation of this product.

**PRODUCT FEATURES AND BENEFITS**

- VOC <10 g/l, SCAQMD Approved
- Contains a silver ion antimicrobial additive to protect the surface
- Positively textured profile to minimize slip risks in wet or damp areas
- Resistant to temperatures of up to 210°F and suitable for steam cleaning
- Unaffected by moisture vapor transmission
- Rapid Return to Service in 24 hours
- Low odor and non-toxic
- This coating complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities

**PRODUCT**

DESCRIPTION	SKU
Surface-Shell SR 24 Sq.Ft. Kit	SK572000

**Kit Contents:**

Part A - Base (.60 Gal.), Part B - Hardener (.50 Gal.) and Part C - Filler (36 Pounds)

**COMPANION PRODUCTS**

DESCRIPTION (Pigment Pack)	SKU
Surface-Shell Dark Grey	SK570003
Surface-Shell Grey	SK570006
Surface-Shell Green	SK570007
Surface-Shell Red	SK570008
Surface-Shell Cream	SK570010
Surface-Shell Custom	SK570099

**NOTE:** Pigment Pack sold separately.

**RECOMMENDED TOPCOATS**

- SealKrete HP Poly-Shell 7000
- SealKrete HP Poly-Shell 8000
- SealKrete HP Epoxy-Shell 1000 EPL

**PRODUCT APPLICATION**

**READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT**

**SURFACE PREPARATION**

**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. The preferred method of surface preparation is to mechanically abrade the floor by diamond grinding to achieve a final 60-80 grit finish, reference profile CSP-5 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 Surface-Shell SR is compatible with most coatings, but a test patch is suggested.

**NOTE:** Concrete should have a minimum of 3,000 psi compressive strength. Concrete must be visibly dry at time of application.

**PRIMING**

Surface-Shell SR does not normally require a primer due to the application method unless the substrate is extremely porous. If a primer is needed, a scratch coat of Surface-Shell SR is recommended.

**MIXING EQUIPMENT**

Low speed drill and 3" Jiffler Mixer or Hanson Plunge Mixer.

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

**MIXING**

Thoroughly mix each component separately before combining. Pour the base (Part A) and hardener (Part B) components together in a clean, dry 5-gallon (18.93 L) container and power mix using a 3" (7.6 cm) Jiffler Mixer or Hanson Plunge Mixer. While mixing, slowly add filler (Part C) and Pigment Pack (Part D) and continue to mix until uniform color is achieved.

**DO NOT THIN**



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**PRODUCT APPLICATION (cont.)**

**APPLICATION EQUIPMENT**

Steel hand trowel or notch squeegee  
Spiked roller

**APPLICATION**

Immediately after mixing, spread the Surface-Shell SR at the required thickness using a notch squeegee or steel hand trowel. Immediately roll with a spiked roller to release any entrapped air and level the mortar. Do not roll the surface after 4 to 8 minutes of it being applied to the floor. Late rolling will cause problems with the finished texture and appearance.

**CLEAN UP**

Applicators and equipment should be cleaned immediately after use with an active solvent like xylene (in SCAQMD, use acetone only). Clean spills or drips while still wet with solvent. Dried Surface-Shell SR will require mechanical abrasion for removal.

**PERFORMANCE CHARACTERISTICS**

**COMPRESSIVE STRENGTH**

METHOD: ASTM C579  
RESULT: 8,128 psi (56 MPa)

**TENSILE STRENGTH**

METHOD: ASTM C307  
RESULT: 1,450 psi (10 MPa)

**BOND STRENGTH TO CONCRETE**

METHOD: ASTM D4541  
RESULT: Minimum 400 psi (100% concrete failure)

**FLEXURAL STRENGTH**

METHOD: ASTM C580  
RESULT: 2,900 psi (20 MPa)

**IMPACT RESISTANCE**

METHOD: at 125 mils - 160 inch-pounds (18 Nm)  
RESULT: no visible damage or deterioration.

**ABRASION RESISTANCE**

METHOD: ASTM D4060 (CS 17 wheels, 1000 cycles)  
RESULT: 5g weight loss

**COEFFICIENT OF THERMAL EXPANSION**

METHOD: ASTM C531  
RESULT: 1.5x10<sup>5</sup> in/in/F°

**COEFFICIENT FRICTION**

METHOD: ASTM D2047  
RESULT: Exceeds ADA recommendations

**TEMPERATURE RESISTANCE**

METHOD: Continuous exposure  
RESULT: 200°F

METHOD: Intermittent spills  
RESULT: 250°F



**SEAL KRETE® HIGH PERFORMANCE SURFACE-SHELL™ SR**

**PHYSICAL PROPERTIES**

		<b>SURFACE-SHELL SR</b>
<b>Resin Type</b>		Cementitious Urethane
<b>Pigment Type</b>		Varies depending on color
<b>Weight</b>	<b>Per Gallon</b>	8.4-10.2 lbs.
	<b>Per Liter</b>	1.0-1.2 kg
<b>Solids</b>	<b>By Weight</b>	100%
	<b>By Volume</b>	100%
<b>Volatile Organic Compounds</b>		<10 g/l
<b>Recommended Dry Film Thickness (DFT) Per Coat</b>		250 mils
<b>Practical Coverage</b>		24 sq.ft./per kit
<b>Mixing Ratio</b>		1 Part A : 1 Part B : 1 Part Filler
<b>Pot Life @ 77°F (25°C) and 50% Relative Humidity</b>		20-25 minutes
<b>Re-Coat Window (Min./Max)</b>		12 hours/24 hours
<b>Dry Times at 77°F (25°C) and 50% Relative Humidity</b>	<b>Foot Traffic</b>	6-8 hours
	<b>Vehicle Traffic</b>	12-16 hours
	<b>Full Cure*</b>	3-5 days
<b>Dry Heat Resistance</b>		250°F (121°C)
<b>Shelf Life</b>		2 years
<b>Flash Point</b>		>350°F (>176°C)
<b>Safety Information</b>		For additional information, see SDS

\*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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