



SEAL KRETE® HIGH PERFORMANCE CLEAR-SHELL

DESCRIPTION AND USES

SEAL-KRETE® Clear-Shell is a Single Component Aliphatic Moisture Cure Urethane Clear Coating. Seal-Krete Clear-Shell provides a strong, beautiful, and maintenance-free finish.

PRODUCT FEATURES AND BENEFITS

- Versatile – Final Topcoat over Broadcast Floors, Chip Floors, Slurry/Broadcast, Metallic Epoxy, Acid Stains, Concrete Stains
- Full Return to Service in 48 hours
- Outstanding Gloss retention
- Low VOC
- Highly Chemical Resistant (for more information, see chart on page 2)

PRODUCT

DESCRIPTION	SKU
1 Gallon	246001

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 Clear Shell is compatible with most coatings, but a test patch is suggested. Concrete must be visibly dry at time of application.

MIXING EQUIPMENT

Low speed drill and spiral mixing wand.

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

PRODUCT APPLICATION (cont.)

DO NOT THIN

APPLICATION

Read “LIMITATIONS” section before use. This product is ready to use (do not dilute). Stir gently, do not shake. An inconspicuous test area is recommended to ensure desired aesthetics prior to application.

Apply in thin coats. Films applied above 6 mils wet could result in tiny bubbles dried in the film due to carbon dioxide gassing. One coat is recommended; though, very porous substrates may require two coats with sanding between the coats. To improve slip resistance, add one pouch of SEAL-KRETE Clear Grip per gallon of sealer.

Brush/Roller: Brushes or solvent resistant rollers should be used to apply Clear-Shell. If using a roller, a short nap 1/4” is required for smooth concrete and 3/8” nap for broom concrete. Apply in short, overlapping strokes, maintaining a wet bead. To avoid stringing, do not allow the roller or brush to dry. For best results, apply Clear-Shell to concrete which is cool to the touch.

CLEAN UP

Clean tools with solvents (Xylene) immediately after use. Dispose of container and contents in accordance with local laws and regulations. Store in a cool, dry area. Dried material will require mechanical abrasion or chemical strip for removal. Do not use alcohol “IPA” or Lacquer thinner blends that contain alcohol to clean equipment or tools.

LIMITATIONS

Temperatures should be maintained between 50–90°F and should not fall below 50°F within 24 hours of application. Do not apply if rain is expected within 12 hours. **DO NOT USE OVER WATER-BASED PRODUCTS.** Do not apply to glazed tile, marble, granite or other non-porous substrates. Do not use on concrete slabs with inadequately drained sub-grade, treated surfaces to be covered with concrete or plaster, and/or surfaces subject to hydrostatic water pressure. Do not thin or dilute. Do not apply in direct sunlight in high heat conditions. Do not apply if surface temperature is within 5°F of the dew point in the work area. Films applied above 6 mils wet could result in tiny bubbles dried in the film due to carbon dioxide gassing. If not stored in sealed containers coating may develop a thin skin on top.

STORAGE:

Store and transport in unopened containers in a clean, dry area at stable temperatures approximating 60 to 73°F (15 to 22.5°C). **KEEP FROM FREEZING:** Store in a cool, well ventilated area above freezing.



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CHEMICAL RESISTANCE ASTM D-1308

CHEMICAL	RESULT
Water	No effect
Brake Fluid	Soften
Motor Oil	No effect
Gasoline	No effect
MEK	No effect
Acetone	No effect
Isopropyl Alcohol	No effect
Xylene	No effect
Transmission Fluid	No effect
Urine	No effect
10% Ammonium Hydroxide	No effect
50% Sodium Hydroxide	No effect
25% Citric Acid	No effect
10% Sulfuric Acid	No effect
10% Hydrochloric Acid	No effect
20% Ammonia	No effect
Vinegar	No effect
Spic and Span	No effect
Windex	No effect
Chlorinated Pool Water	No effect
Krud Kutter®	No effect
Pine Oil Cleaner	No effect
409 Cleaner	No effect
Mustard	No effect
Ketchup	No effect
A-1 Steak Sauce	No effect
Beer	No effect
Butter	No effect
Redwine	No effect
20% Tannic Acid	No effect
Coffee	No effect
Tea	No effect
Pepsi Cola	No effect
Pickle Juice	No effect
Swine Urine	No effect
Swine Feces	No effect
Lacquer Thinner	No effect
Baby Oil	No effect
Shampoo	No effect
Canola Cooking Oil	No effect

PERFORMANCE CHARACTERISTICS

KOENIG HARDNESS

RESULT: 140

ADHESION STRENGTH

METHOD: ASTM D4541

RESULT: 667 psi (100% concrete failure)

FLAMMABILITY

METHOD: ASTM D635

RESULT: Self Extinguishing

WATER ABSORPTION

METHOD: ASTM D570 (24 hours)

RESULT: <0.1%

ABRASION RESISTANCE

METHOD: ASTM D4060 CS-17

RESULT: 2.2 mg

GLOSS

RESULT: 92 @ 60°

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.



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PHYSICAL PROPERTIES

		CLEAR-SHELL
Resin Type		Aliphatic Urethane
Pigment Type		Clear
Weight	Per Gallon	10.5 lbs.
	Per Liter	1.26 kg
Solids	By Weight	40%
	By Volume	44%
Volatile Organic Compounds		4 g/l
Practical Coverage		250-400 sq. ft. per gallon using 1/4" roller at 4-6 mils, depending on surface porosity and application method. Second coat will render 50% greater coverage per gallon.
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Touch	30 minutes
	Recoat	6-8 hours (Sand in between coats)
	Foot Traffic	24 hours
	Vehicle Traffic	48 hours
	Full Cure	7 days
Shelf Life		3 years

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

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