



**SEAL KRETE® HIGH PERFORMANCE
DIAMOND SHELL**

DESCRIPTION AND USES

SEAL-KRETE® Diamond Shell is a ready to use, easy to install high performance gloss topcoat that provides industry leading durability and return to service performance. Ideal for decorative and functional flooring applications that require protection from UV rays, abrasion, scratches and many of today's harshest chemicals.

Diamond Shell is tough and durable, at least 2X's more scratch and mar resistance when compared to moisture cured urethanes and polyaspartics.

PRODUCT FEATURES AND BENEFITS

- Quick Return to Service
- Provides a high gloss, smooth finish over a wide range variety of substrates and coatings
- Single component, high solids and VOC compliance
- Proprietary aliphatic chemistry provides excellent protection from UV rays, harsh chemicals and abrasion
- Ideal for commercial, institutional and industrial applications

PRODUCT

DESCRIPTION (Clear High Gloss)	SKU
Diamond Shell	360141

PRODUCT APPLICATION

READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT

CONCRETE REPAIR

All spalls and cracks must be chased out and repaired to ICRI standards using an appropriate patching material.

SURFACE PREPARATION

The concrete surface must be free of all dirt, grease, oil, fats, and other contamination. Remove surface contamination by cleaning with Krud Kutter® PRO Concentrated Cleaner Degreaser, detergent, or other suitable cleaner. Rinse thoroughly with clean, fresh water and allowed to dry. Note: The substrate must be completely dry prior to application of Diamond Shell. Moisture Cure coatings are extremely sensitive to moisture and can affect proper curing of the coating.

NEW CONCRETE: New concrete should be allowed to cure for a minimum of 30 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.

PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

NEW CONCRETE: (cont.) 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.

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 Diamond 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.

APPLICATION

Apply only when air, material and floor temperatures are between 50-90°F (10-32°C). Do not apply in direct sunlight or when temperature is rising. Be sure the substrate is completely dry. Pour out only the amount of material to be used into a roller pan. Immediately cover the can if not using the entire gallon, product is extremely moisture sensitive. Do not return unused material from the roller pan to the can or mixing container. Use a 1/4" inch, lint free roller with a phenolic core to roll out the coating. Begin with rolling out a W or M pattern, then cross roll to fill in and smooth out the coating. If second coat is needed, must sand between coats.

THINNING

None required

CLEAN-UP

Clean Tools and application equipment immediately after use with acetone or MEK. Clean spills or drips while still wet with acetone or MEK. Dried product will require mechanical abrasion for removal.

LIMITATIONS

This product is not designed for immersion or any use where moisture can reach the underside of the coating. Do not apply to floors that have been treated with curing compounds (unless completely removed) or substrates that are less than 30 days old. Humidity levels drastically alter drying times.



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PHYSICAL PROPERTIES

		DIAMOND SHELL
Resin Type		Polymethoxysiloxane
Solvents		Oxsol 100
Weight	Per Gallon	9.3 lbs.
	Per Liter	1.0 kg
Solids	By Weight	96%
	By Volume	97%
Volatile Organic Compounds		96 g/l
Recommended Wet Film Thickness (WFT) Per Coat		2-4 mils
Practical Coverage Rate (assumes 15% material loss)		340-660 sq. ft./gal. Coverage rate can vary depending on the texture and porosity of the concrete
Dry Times at 77°F (25°C) and 50% Relative Humidity*	Touch	1 hour
	Re-Coat	2 hours (must sand in between coats)
	Light Use	4-6 hours
	Normal Use	18 hours
	Full Cure	24 hours (Lower humidity environments will extend curing time)
Shelf Life		6 months
Flash Point		>200°F (93°C)
Safety Information		See SDS

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

*Humidity levels drastically alter drying times

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.