SEAL KRETE® HIGH PERFORMANCE CLEAR-SHELL TX

DESCRIPTION AND USES

SEAL-KRETE® Clear-Shell TX is a UV stable fast cure moisture cure urethane that fully cures and accepts vehicle traffic in only 24 hours. The optional TX additive forms a durable co-polymer matrix when added to SKHP coatings to provide a finish with increased resistance to marring, scratching and abrasion, and delivers a satin-texture appearance that helps hide minor imperfections in the substrate and even out the finish of the coating.

PRODUCTS

DESCRIPTION	SKU
Clear Shell TX Clear	338790
Clear Shell TX Armor Grey	338795
Clear Shell TX Slate Grey	338796
Clear Shell TX Sand	338797
Clear Shell TX Sahara Desert	338798

PACKAGING

Clear Kit: 1 gallon can + stabilizer shot + optional pouch of TX

Tinted Kit: 1 gallon can + tinted stabilizer shot + additional pouch of TX

PRODUCT FEATURES AND BENEFITS

- Fast return to service time, can accept vehicle traffic in 24 hours
- UV Stable, excellent chemical and abrasion resistance
- Available in clear and 4 standard pre-tinted colors
- Easy roller application
- One gallon covers 400-500 square feet

RECOMMENDED PRIMERS

- Seal Krete HP Epoxy-Shell 1000 EPL
- Seal Krete HP Flex-Coat

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® Original Cleaner Degreaser, detergent, or other suitable cleaner. Rinse thoroughly with clean, fresh water and allowed to dry.

PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

NEW, UNCOATED CONCRETE: New concrete must be allowed to cure for a minimum of 30 days before application. In addition to the aforementioned cleaning, the concrete must be further prepared by mechanical grinding or acid etch to remove all laitance and produce a suitable surface profile.

PREVIOUSLY COATED CONCRETE: Previously coated concrete must be in good sound condition with the existing coating tightly adhering to the concrete. In addition to the aforementioned cleaning the existing coating must be sanded to dull the finish and produce a slight surface profile. Remove all sanding dust by vacuum. Do not wipe the floor with denatured alcohol or other solvent. If wiping is necessary, use only urethane grade Methyl Ethyl Ketone (MEK).

MIXING

Both components and environment should be pre conditioned to a minimum of 50ºF (10ºC) prior to use. Be sure the air and surface temperatures are at least 5º above the dew point. Clear-Shell TX is moisture sensitive, so be sure the outside of the containers are dry and free of condensation.

Shake the container of Stabilizer/Tint for one full minute before combining with the Clear-Shell TX. The components can be mixed in a separate container or mixed in the gallon can. After combining the components, power mix at 500-700 rpm for 2-3 minutes. Use an appropriate size mixer and use care to not entrain air into the coating while mixing. Once mixed, the material has a 6 month shelf life.

OPTION: For a textured finish, add the entire contents of the TX pouch to both the pigmented and Clear Shell TX kits.

EQUIPMENT RECOMMENDATIONS

ROLLER: Use a high quality ⅜ inch lint-free roller with a phenolic core.

BRUSH: Use a disposable natural fiber chip brush, 2-4 inch wide for cut in work.

NOTE: The substrate must be completely dry prior to application of Clear-Shell TX. Urethane coatings are sensitive to moisture and can affect proper curing of the coating.

APPLICATION

Apply only when air, material and floor temperatures are between 50-90°F (10-32°C) and the surface temperature is at least 5°F (3°C) above the dew point. The relative humidity should not be greater than 85%.

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PRODUCT APPLICATION (cont.)

APPLICATION (cont.)

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. Unused material can be saved in the mixing container for up to 6 months provided it is properly sealed. Do not return unused material from the roller pan to the mixing container.

Use a ⅜ 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.

NOTE: Do not exceed recommended coverage rate, as film defects are possible.

THINNING

None required

CLEAN-UP

Methyl Ethyl Ketone (MEK).

PERFORMANCE CHARACTERISTICS

TENSILE STRENGTH
METHOD: ASTM D412
RESULT: 5,500

ABRASION RESISTANCE
METHOD: ASTM D4060, CS 17 Wheel, 1,000 g load, 1,000 cycles
RESULT: 43

COMPRESSIVE STRENGTH
METHOD: ASTM D695
RESULT: 12,000

HARDNESS, SHORE D
METHOD: ASTM D2240
RESULT: 84

ELONGATION
METHOD: ASTM D412
RESULT: 75

GLOSS
METHOD:ASTM D23 @ 60°
RESULT: 91+

COEFFICIENT OF FRICTION
METHOD: ASTM D1894
RESULT: 0.69 Wet, 0.80 Dry

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.

CHEMICAL RESISTANCE

CHEMICAL	RESULT (77°F/25°C)
Acetic Acid 100%	RC
Acetone	R
Ammonium Hydroxide 50%	RC
Benzene	RC
Brake Fluid	RC
Brine saturated H2O	R
Chlorinated H2O	R
Clorox (10%) H2O	R
Diesel fuel	RC
Gasoline	R
Gasoline/5% MTBE	R
Gasoline/5% Methanol	R
Hydrochloric Acid 20%	R
Hydrofluoric Acid 10%	RC
Hydraulic fluid (oil)	RC
Isopropyl Alcohol	R
Jet Fuel (JP-4)	R
Lactic Acid	RC
MEK	NR
Methanol	R
Methylene Chloride	C
Mineral Spirits	R
Motor Oil	R
MTBE	C
Muriatic Acid 10%	R
NaCl/H2O 10%	R
Nitric Acid 20%	R
Phosphoric Acid 10%	RC
Phosphoric Acid 50%	NR
Potassium Hydroxide 10%	R
Potassium Hydroxide 20%	R, Dis
Propylene Carbonate	RC
Skydrol	RC
Sodium Hydroxide 25%	R
Sodium Hydroxide 50%	R, Dis
Sodium Hypchlorite 10%	RC
Sodium Bicarbonate	R
Stearic Acid	R
Sugar/H20	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	R
Toluene	R
1, 1,1-Trichlorethane	C
Trisodium Phosphate	R
Vinegar/H2O 5%	R
H2O 14 days @ 82°	R
Xylene	NR

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

SEAL KRETE® HIGH PERFORMANCE CLEAR-SHELL TX

PHYSICAL PROPERTIES

		CLEAR-SHELL TX
Resin Type		Aliphatic Urethane
Weight*	**Per Gallon**	9.59 lbs.
	Per Liter	1.1 kg
Solids By Volume		90%
Volatile Organic Compounds*		<50 g/l**
Recommended Dry Film Thickness (DFT) Per Coat		3-4 mils
Wet Film to Achieve DFT (unthinned material)		3.5-4.5 mils
Practical Coverage Rate		400 sq. ft./gal. Coverage rate can vary depending on the texture and porosity of the concrete
Dry Times at 72°F (22ºC) and 50% Relative Humidity†	**Recoat**	4-12 hours*
	Light Traffic	4-6 hours
	Full Traffic	24 hours
Shelf Life		18 months unopened 6 months once the Stabilizer/Tint has been added and properly sealed
Flash Point		>200°F (93°C)
Safety Information		See SDS

Calculated values are shown and may vary slightly from the actual manufactured material.
† Dry times will be increase if temperatures are less than 65º F (18ºC) and /or Relative Humidity is less than 50%.
* If 12 hour recoat time has elapsed, the coating must be sanded prior to recoating.
** Calculated applied VOC