



KEY RESIN COMPANY



# KEY URECON SL

## DESCRIPTION

**URECON-SL** is a 3/16" – 1/4" seamless, urethane modified, cementitious slurry system that produces a dense, non-porous floor that is chemical and dirt resistant. Ideal for medium to heavy duty traffic areas, URECON-SL exhibits high impact resistance and excellent thermal shock and chemical resistance.

**URECON-SL** can be installed with an integral cove base for areas requiring seamless wall to floor coatings. Excellent for rehabbing old floors, the **URECON-SL** system provides a strong, long lasting, and attractive surface that resists chemical corrosion, abrasion, and impact.

## KEY ADVANTAGES

- Excellent Chemical, Wear, and Impact Resistance
- Will Not Lose Bond Due to Moisture Vapor
- Low Maintenance
- Fast Cure Time
- Low Odor Application
- Chemical Resistant Finishes are Available

## KEY CONSIDERATIONS

- Should be applied when temperature is between 50°F and 85°F.
- Site must be free from condensation or water contamination during application and cure.
- Concrete substrate must be free of dirt, waxes, curing agents, and other foreign materials.
- Expansion joints in the substrate must be revealed through the topping and filled with urethane sealant. Movement of substrate cracks may transmit through system.

## TYPICAL USES

**URECON-SL** is typically used in medium to heavy duty manufacturing or packaging areas and dry processing areas where a smooth finish is needed.

## SELECTION GUIDE

Activity Centers	
Aircraft Hangars	
Airports	Baggage/Service Terminals
↑ Animal Areas	Housing
↔ Beverage	Cage Washing
↔ Beverage	Processing
↑	Packaging/Warehousing
↔	Bottling
Cafeterias	
↔ Chemical Processing	
↑ Clean Rooms	
↔ Coolers	
Computer Assembly	
↔ Commercial Kitchens	
Containment Areas	
Convention Centers	
↑ Correctional Facilities	
↑ Corridors	
Docks/Ramps	
↔ Dairies	
↑ Distilleries	Packaging
↔	Bottling
↔ Food	Processing
↑	Preparation Service
Garages	
Hospitals	Corridors & Lobbies
	Patient Rooms
	Operating Rooms
↑	Services
Laboratories	
↑ Laundries	
↑ Locker Rooms	
↑ Machine Shops	
↑ Manufacturing	Light Duty
↔	Heavy Duty
↔ Meat, Fish, Poultry Processing	
↔ Mechanical Equipment Rooms	
Munitions Facilities	
Parking Garages	Interior Decks
	Exterior Decks
↔ Pharmaceutical Plants	
↔ Pulp and Paper Processing Facilities	
Schools	
Shopping Malls	
↑ Showers	
↑ Utilities	
↑ Warehouses	
↔ Waste Water Treatment Facilities	

↑-Excellent Choice ↔-Alternate Choice

# TECHNICAL DATA

## System Performance Properties

<b>Flammability</b> ASTM D-635	Self Extinguishing
<b>Fungus &amp; Bacteria Growth</b> MIL-F-52505 §4.4.2.11	Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests.
<b>Hardness</b> ASTM D-2240	80-84 Shore D
<b>Bond Strength to Concrete</b> ACI COMM #403, Bulletin 59-43	300 psi (100% concrete failure)
<b>Flexural Strength</b> ASTM C-580	2,600 psi
<b>Coefficient of Friction</b> ASTM D-2047	0.80
<b>Water Absorption</b> ASTM D-570	Nil
<b>Thermal Shock Resistance</b> ASTM C-884	Passes
<b>Abrasion Resistance</b> ASTM C-501	32 mg
<b>Impact Resistance</b> MIL-D-3134F §4.7.3	Withstands 16 ft./lbs. without cracking, delamination, or chipping.
<b>Compressive Strength</b> ASTM C-579, 7 days	7,500 psi
<b>Tensile Strength</b> ASTM C-307	1,100 psi
<b>Density</b>	125-130 ft <sup>3</sup>
<b>Thermal Coefficient of Expansion</b> ASTM C-531	$2 \times 10^{-5}$
<b>Cure Time</b>	10-12 hours, Next Day for Full Service

## COMPOSITION

URECON-SL is a urethane modified, portland cement system blended with a variety of graded silica, or ceramic fillers.

## COLOR & AVAILABILITY

URECON-SL is available in Dark Grey, Tan, Red, Black or Green. Custom colors are available subject to laboratory approvals, minimum quantities, lead time for production and increased cost. Colors will not fade or wear thin.

## APPLICATION

Concrete surfaces must be in sound condition and properly prepared prior to any **KEY RESIN COMPANY** flooring system installation. Refer to **Key Resin Company Technical Bulletin #1** for specific preparation guidelines.

Mechanical mixing is required for **URECON SL**. Installation is completed in one step using a steel trowel or squeegee to spread the material over the floor. For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

## MAINTENANCE

After completing the application of **URECON-SL**, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly.

**URECON-SL** is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Waxing is optional. Long periods of heavy traffic may cause wear patterns necessitating a maintenance application of a finish coat.

**WARRANTY** Key Resin Company ("Key") warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of Key. If any product fails to meet this warranty, the liability of Key will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Key within (1) one year of delivery of materials. Key may in its discretion refund the price received by Key in lieu of replacing the material. No customer, distributor, or representative of Key is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Key. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Key reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. KEY'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND KEY SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

**Key Flooring Systems** are available throughout the United States, Canada, and a number of other countries. Contact the **KEY REPRESENTATIVE** in your area for details.

## TECHNICAL SERVICE

**Key Resin Company** and **KRC Associates, Inc.** provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **KEY REPRESENTATIVES** are available to assist you at any time. CALL (888) 943-4532.

