



KEY URECON SL-730

DESCRIPTION

KEY URECON SL-730 is a seamless, urethane-modified cementitious slurry floor topping applied at 1/8" to 1/4" thickness that produces a dense, non-porous floor. **KEY URECON SL-730** has high impact resistance and excellent thermal shock and chemical resistance making it ideal for medium to heavy duty traffic areas in manufacturing, food/beverage processing areas, dairies, and numerous other applications where a smooth finish is needed. For a textured finish specify **KEY URECON SLT** or **KEY URECON SLT QUARTZ** flooring systems, a textured surface reduces slipping under most wet conditions. **KEY URECON SL-730** is used as a component in these systems.

KEY URECON SL-730 is a moisture vapor tolerant system making it the ideal solution for many moisture problems, it may be used both indoors and outdoors. **KEY URECON SL-730** can be installed with an integral cove base for areas requiring seamless floor to wall systems. Excellent for rehabbing old floors, **KEY URECON SL-730** provides a much stronger, longer lasting, and attractive surface.

KEY ADVANTAGES

- High impact, thermal shock, and wear resistance.
- Excellent chemical resistance.
- Almost completely odorless, VOC compliant, meets USGBC LEED criteria.
- Seamless, sanitary, will not support growth of fungus or bacteria.
- Moisture vapor tolerant system, will not lose bond due to moisture vapor.
- Chemical resistant sealers are available for specific requirements.
- Larger 55 lb. part III aggregate unit slumps less on a slope compared to Urecon 16 and Urecon SL.

KEY CONSIDERATIONS

- Should be applied when temperature is between 50°F and 85°F.
- Substrate must be free from condensation or water contamination during application and cure.
- Material requires mechanical mixing.
- Substrate should be clean, dry, properly prepared concrete.
- Exposure to UV and other strong indoor lighting will cause light colors to amber, use darker colors or non-ambering top coats if needed.

APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion to any successful resinous flooring system application. All substrates must be properly prepared as outlined in **Key Resin Technical Bulletin #1**. Work must be performed by trained or experienced contractors or maintenance personnel. The **Key Resin Technical Service** department is available to answer any questions.

MIXING

- Mechanical mixing is required. A 5 gallon pail with Jiffy type mixer or 10 gallon KOL type mixer with paddle is recommended.
- Add Part I and Part II in running mixer and blend until they are uniform (about 30 seconds).
- Add Part III aggregate slowly to mix and blend for 1 to 2 more minutes. Over-mixing reduces working time.

INSTALLATION

KEY URECON SL-730 is installed using a gauge/pin rake or steel trowel. Refer to detailed Installation Instructions document for additional mixing and application details.

| TECHNICAL DATA | RESULTS | TEST METHOD |
|----------------------------------|---|--------------------|
| Compressive Strength | 7,700 psi | ASTM C-579 |
| Tensile Strength | 1,100 psi | ASTM C-307 |
| Flexural Modulus of Elasticity | 2.6 x 10 ⁶ psi | ASTM C-580 |
| Water Absorption | <1% | ASTM C-413 |
| Coefficient of Thermal Expansion | 1 x 10 ⁻⁵ in/in/per °F | ASTM C-531 |
| Impact Resistance | Withstands 16 ft./lbs. (or >160 in./lbs.) | MIL-D-3134F §4.7.3 |
| Service Temperature Resistance | -50 – 240 °F wet, 280°F wet intermittent, 350°F dry | |
| Abrasion Resistance | 32 mg (0.032 gm) | ASTM C-501 |
| Flammability | Class 1 | ASTM E-648 |
| Hardness | 80-84 Shore D | ASTM D-2240 |
| Bond Strength to Concrete | 400+ psi (concrete failure, varies by concrete tensile strength) | ASTM D-7234 |

CHEMICAL RESISTANCE

- Refer to Key Resin Chemical Resistance Guide or top coat data sheet.

CURING TIME

- Approximately 6 - 8 hours at 75°F for light foot traffic and top coating.
- For faster cure time consult with Key Resin Technical Service on use of Key Urecon Accelerator Additive.
- 12 hours for light wheeled traffic, 24 hours for full traffic and chemical resistance.

CLEAN-UP

- No thinners are required, Mineral Spirits may be added up to 10% of the liquids volume.
- Clean equipment with soap and water before material hardens.

AVAILABILITY

Key Resin Company products are available throughout the United States, Canada, and a number of other countries. Contact the **Key Resin Sales Representative** in your area for details.

COLORS

- Refer to Key Dry Oxide Pigment Color Chart. Price surcharge for Dark Blue, Light Blue, Green.
- Light colors may become altered with exposure to UV spectrum and other strong indoor light.
- When using a top coat refer to the appropriate Key Resin color chart.

TECHNICAL SERVICE

Key Resin Company provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **Key Resin Sales/Technical Representatives** are available to assist you. Telephone 888.943.4532 or visit www.keyresin.com.

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.