



KEY ULTRACON SL

DESCRIPTION

KEY ULTRACON SL is a seamless, non-yellowing, aliphatic urethane-modified cementitious slurry topping applied at 1/8" to 1/4" thickness that produces a dense, non-porous floor. **KEY ULTRACON SL's** high impact resistance and excellent thermal shock and chemical resistance make it ideal for medium to heavy duty traffic areas in manufacturing, food processing areas and numerous other applications where a smooth finish is needed. **KEY ULTRACON SL** is a moisture vapor tolerant system making it the ideal solution for many moisture problems.

KEY ULTRACON SL may be used both indoors and outdoors, and in areas where freeze/thaw thermal shock is a factor. **KEY ULTRACON SL** can be installed with an integral cove base for areas requiring seamless wall to floor systems. Installing **KEY ULTRACON SL** with a textured surface reduces slipping under most wet conditions. Excellent for rehabbing old floors, **KEY ULTRACON SL** provides a much stronger, longer lasting, and attractive surface. **KEY ULTRACON SL** is the key choice for wet areas, dairies, food processing areas, and heavy industrial areas.

KEY ADVANTAGES

- High Impact, Thermal Shock, and Wear Resistance
- Non-Yellowing Aliphatic Urethane Composition
- Almost Completely Odorless, VOC Compliant
- Will Not Support Growth of Fungus or Bacteria
- Moisture Vapor Tolerant System, Will Not Lose Bond Due to Moisture Vapor
- Excellent Chemical Resistance

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

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 COMPANY'S TECHNICAL BULLETIN #1**. Work must be performed by trained or experienced contractor's or maintenance personnel. The **KEY RESIN COMPANY** technical service department is available to answer any questions.

MIXING

- Mechanical mixing is required. A 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.

INSTALLATION

KEY ULTRACON SL is installed using a gauge rake, squeegee or steel trowel. Refer to detailed Installation Instructions document.

| 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 | 2.6×10^6 psi | ASTM C-580 |
| Water Absorption | <1% | ASTM C-413 |
| Coefficient of Thermal Expansion | 1×10^{-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 (100% concrete failure, varies by concrete tensile strength) | ASTM D-7234 |

CHEMICAL RESISTANCE

- Refer to Key Resin Chemical Resistance Guide

CURING TIME

- Approximately 6 - 8 hours at 75°F for light foot traffic
- 12 hours for light vehicle traffic, 24 hours for full chemical resistance

CLEAN-UP

- No thinners are required
- Clean equipment with soap and water

AVAILABILITY

KEY RESIN COMPANY'S products are available throughout the United States, Canada, and a number of other countries. Contact the **KEY REPRESENTATIVE** in your area for details.

COLORS

- Refer to Key Dry Oxide Pigment Colors Chart. Price surcharge for Dark/Light Blue.
- Light colors **will not** become altered with exposure to UV light.

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. 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.