



# KEY URECON 16

## DESCRIPTION

**KEY URECON 16** is a seamless, urethane-modified cementitious slurry topping applied at 1/16"-1/8" smooth finish or broadcast with aggregate to yield 1/8"-3/16" with a textured non-slip finish. **KEY URECON 16's** excellent impact resistance, thermal shock and chemical resistance make it ideal for light to medium duty traffic areas in manufacturing, food processing areas and numerous other applications. **KEY URECON 16** is a moisture vapor tolerant system making it the ideal solution for many moisture problems.

**KEY URECON 16** may be used both indoors and outdoors, and in areas where freeze/thaw thermal shock is a factor. **KEY URECON 16** can be installed with an integral cove base for areas requiring seamless wall to floor systems. Installing **KEY URECON 16** with a textured surface reduces slipping under most wet conditions. Excellent for rehabbing old floors, **KEY URECON 16** provides a much stronger, longer lasting, and attractive surface. **KEY URECON 16** is the key choice for wet areas, dairies, food processing areas, and heavy industrial areas.

## KEY ADVANTAGES

- High Impact, Thermal Shock, and Wear Resistance.
- Excellent Chemical Resistance.
- Almost Completely Odorless, VOC Compliant.
- Contributes to U.S.G.B.C. LEED Credits.
- 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.
- Decorative Colored Quartz Aggregate and Colored Chip (Flake) Options Available.

## KEY CONSIDERATIONS & LIMITATIONS

- 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. Do not mix partial units.
- Substrate should be clean, dry, sound, properly prepared concrete.
- Repair cracks, divots and spalls prior to installation.
- Severe concrete outgassing will require priming with Key Urecon SC (broadcasted).
- Do not apply less than 1/16". Do not featheredge.

## APPLICATION

### SURFACE PREPARATION

**Surface Preparation** is the most critical portion to any successful resinous flooring system application. All substrates must be properly prepared to a minimum CSP-3 profile 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.
- Add Part I and Part II in running mixer and blend until uniform (about 30 seconds).
- Add Part III aggregate slowly to mix and blend for 1 more minute. Use immediately.

## INSTALLATION

**KEY URECON 16** is installed using a gauge rake, 1/4"-1/2" V-notched rake, squeegee or steel trowel. Refer to detailed Installation Instructions document.

TECHNICAL DATA	RESULTS	TEST METHOD
Compressive Strength	7,500 psi	ASTM C-579
Tensile Strength	800 psi	ASTM C-307
Flexural Modulus of Elasticity	$2.6 \times 10^6$ psi	ASTM C-580
Water Absorption	<1%	ASTM C-413
Coefficient of Thermal Expansion	$1 \times 10^{-5}$ 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) (varies by topcoat type)	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 Urecon SL in Key Resin Chemical Resistance Guide.
- Refer to product data for specific topcoat.

## CURING TIME

- Approximately 6 - 8 hours at 75°F for light foot traffic and recoat.
- 12-16 hours for light vehicle traffic, 24 hours for full chemical resistance.
- Refer to product data for specific topcoat(s).

## CLEAN-UP

- No thinners are required.
- Clean equipment with soap and water, xylene or other solvent as needed.

## 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 may become altered with exposure to UV spectrum light.
- Key Colored Quartz and Key Colored Broadcast Chips also available, used with clear sealer.

## 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 SALES/TECHNICAL REPRESENTATIVES** are available to assist you. Telephone (888)943-4532 or visit [www.keyresin.com](http://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.