

KEY URECON 16

Product Information Sheet



DESCRIPTION

KEY URECON 16 is a seamless, urethane-modified cementitious slurry topping applied at 1/16"-1/8" smooth finish or is used as a body coat component of various other **Key Urecon Systems**. **KEY URECON 16's** excellent impact resistance, thermal shock and chemical resistance make it ideal for light to heavy 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
- Low odor for use in occupied areas
- Meets USGBC LEED criteria for low VOC
- Hygienic—will not support growth of fungus or bacteria
- Moisture vapor tolerant system; up to 95% RH probe test and 15 lbs calcium chloride test
- Chemical resistant sealers are available
- Meets USDA requirements

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. 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 may require priming with **Key Urecon SC** (broadcast)
- Epoxy topcoat requires a broadcast texture

COLOR SELECTION

Refer to **Key Dry Oxide Pigment Colors Chart**. Price surcharge for Dark/Light Blue, Green. May also use **Key Urethane Pigment Packs** at additional cost. Light colors may become altered with exposure to UV spectrum light. **Key Colored Quartz** and **Key Colored Broadcast Chips** also available, used with various clear sealers.

CURE/DRY TIME

Working Life	10-15 mins @ 75°F, 50% RH
Recoat* (*Accelerator Additive reduces time)	6-8 hrs @ 75°F, 50% RH
Light Foot Traffic Service	8-10 hrs @ 75°F, 50% RH
Light Vehicular Traffic	12-16 hrs @ 75°F, 50% RH
Full Cure & Max. Resistance	3-5 days @ 75°F, 50% RH

Refer to product information sheet for specific topcoat(s)

APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion of 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 INSTRUCTIONS

Mechanical mixing is required. Add Part I and Part II in running mixer and blend until uniform (about 30 seconds). Add Part III aggregate and pigment pack 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 and **Key Resin Technical Service** for additional important details.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner. Consult Safety Data Sheet (SDS) for safety and health precautions.

CHEMICAL RESISTANCE

Refer to **KEY URECON SL** in **Key Resin Chemical Resistance Guide** or **Key Resin Technical Service** for other chemicals not listed. Refer to product information sheet for specific topcoat(s).

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TECHNICAL DATA

Mixing Ratio	Pre-Packaged Kit
Weight (liquids)	9.00-9.50 lbs per gallon, mixed
Volatile Organic Content (VOC) (EPA Method 24)	0 g/L, compliant to low VOC Rule 1113 in all 50 states

AVAILABILITY

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

PHYSICAL PROPERTIES

Compressive Strength	ASTM C579	7,500 psi
Tensile Strength	ASTM C307	800 psi
Flexural Modulus of Elasticity	ASTM C580	2.6 x 10 ⁶ psi
Water Absorption	ASTM C413	<1%
Coefficient of Thermal Expansion	ASTM C531	1 x 10 ⁻⁵ in/in/per °F
Impact Resistance	MIL-D-3134J	Withstands 16 ft./lbs. (or >160 in./lbs.)
Service Temperature Resistance		-50 – 240°F wet, 280°F wet intermittent, 350°F dry
Abrasion Resistance	ASTM D4060 CS17 Wheel, 1000 cycles	32 mg
Flammability	ASTM E648	Class 1
Hardness, Shore D	ASTM D2240	80-84
Adhesion to Concrete	ASTM D7234	300-400+ psi (Concrete Failure, varies by concrete strength)

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.

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.

MAINTENANCE

After completing the application of **KEY URECON 16**, the installer should provide the owner with maintenance instructions. **KEY URECON 16** is easily cleaned with neutral soaps or detergents. Refer to **Key Resin Technical Bulletin #3** and **#3A** for additional recommendations.