



KEY RESIN COMPANY



KEY URECON TG

DESCRIPTION

URECON-TG is a heavy duty, trowel applied urethane modified cementitious topping. High impact resistance and excellent thermal shock and chemical resistance make **URECON-TG** ideal for use in manufacturing areas. In addition, as a “breathing” system, **URECON-TG** is a solution for many moisture problems.

URECON-TG may be used both indoors and outdoors and in areas where freeze/thaw is a factor. Its textured surface reduces slipping under most wet conditions. Excellent for rehabbing old floors, **URECON-TG** provides a much stronger, longer lasting, and attractive surface. **URECON-TG** is the key choice for wet areas, dairies, food processing areas, and industrial kitchens.

URECON-TG can be installed with an integral cove base for areas requiring seamless wall to floor coatings. It will not support the growth of fungus or bacteria. Contact your **KEY REPRESENTATIVE** for specification assistance.

KEY ADVANTAGES

- Allows Moisture Vapor Transmission for on or Below Grade Applications
- Excellent Thermal Shock & High Chemical, Impact, & Wear Resistance
- Low Maintenance
- Safe (non-skid)
- Low Odor Application
- One-Step Application with Fast Cure Time

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-TG is used in heavy traffic and production areas such as manufacturing plants, loading areas, and processing and preparation areas. It is the key choice for wet areas, dairies, food processing areas, and industrial kitchens.

SELECTION GUIDE

Activity Centers	
Aircraft Hangars	
Airports	Baggage/Service
	Terminals
↑ Animal Areas	Housing
↑	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

Flammability ASTM D-635	Non-Burning
Fungus & Bacteria Growth MIL-F-52505 §4.4.2.11	Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests.
Hardness ASTM D-2240	80-85 Shore D
Bond Strength to Concrete ACI COMM #403, Bulletin 59-43	300 psi (100% concrete failure)
Flexural Strength ASTM C-580	2,000 psi
Coefficient of Friction ASTM D-2047	0.80
Water Absorption ASTM D-570	0.10%
Thermal Shock Resistance ASTM C-884	Passes
Abrasion Resistance ASTM C-501	Depends on Finish
Impact Resistance MIL-D-3134F §4.7.3	16 ft./lbs.--0.003 inches indentation
Compressive Strength ASTM C-579, 7 days	7,500 psi
Tensile Strength ASTM C-307	800 psi
Density	130 ft ³
Thermal Coefficient of Expansion ASTM C-531	1.1 x 10 ⁻⁵
Cure Time	8-10 hours, Next day for Full Service

COMPOSITION

URECON-TG combines a urethane binder with portland cement and graded aggregates.

COLOR & AVAILABILITY

URECON-TG 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-TG**. Installation is completed by trowelling **URECON-TG** in place in one step. Special care is taken to insure seamless installations with even finish and texture. For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

MAINTENANCE

After completing the application of **URECON-TG**, 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-TG 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.

