



# KEY URECON CHIP 100

## DESCRIPTION

**KEY URECON CHIP 100** is a 3/16"-1/4" moisture vapor tolerant polymer flooring system consisting of a urethane cement mortar base and decorative colored chip broadcast finish. Key Urecon Chip 100 is finished with clear catalyst-cured coats of resin. The installed system reduces porosity and produces a dense, skid-inhibiting sanitary finish that minimizes bacterial growth and chemical penetration.

## KEY ADVANTAGES

- Seamless, Sanitary Floor
- Will Not Lose Bond Due to Moisture Vapor Transmission
- High Impact and Wear Resistance
- Low Maintenance
- Safe (non-slip) with optional non-skid additive
- Chemical Resistant Finish
- Decorative Appearance

## 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.
- Cracks in the substrate must be filled with Urecon.

## COMPOSITION

**KEY URECON CHIP 100** is a urethane modified, portland cement system blended with a variety of graded silica. Intermediate coats and topcoats consist of both pigmented and clear epoxy, urethane or polyaspartic resins depending on project requirements.

## TYPICAL USES

**KEY URECON CHIP 100** is a system ideal for heavy duty use in corridors, restrooms/lockers, kitchens, cafeterias, laboratories, manufacturing/processing areas, bottling/packaging areas or other areas requiring a chemical resistant, sanitary, high impact resistant finish.

## 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 Key Urecon Chip 100. Installation requires using a trowel or squeegee to spread the materials over the floor, followed with broadcasting colored chips and topcoating. For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

## COLOR & AVAILABILITY

**KEY URECON CHIP 100** is available in a variety of colors.

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

# TECHNICAL DATA

## System Performance Properties

<b>Flammability</b> ASTM D-635	Self Extinguishing
<b>Fungus &amp; Bacteria Growth</b> MIL-F-52505§4.4.2.11	Will not support growth of fungus or bacteria when subjected to mildew and bacterial tests.
<b>Hardness</b>	85-90 Shore D
<b>Bond Strength to Concrete</b> ACI COMM #403, Bulletin 59-43	400 psi (100% concrete failure)
<b>Flexural Strength</b> ASTM C-580	4,000 psi
<b>Coefficient of Friction</b> ASTM D-2047	0.80 (varies by topcoat, texture)
<b>Water Absorption</b> ASTM D-570	Nil
<b>Thermal Shock Resistance</b> ASTM C-884	Passes
<b>Abrasion Resistance</b> ASTM C-501	32 mg

<b>Compressive Strength</b> ASTM C-579, 7 days	10,000 psi
<b>Tensile Strength</b> ASTM C-307	2,400 psi
<b>Density</b>	125-130 ft <sup>3</sup>
<b>Thermal Coefficient of Expansion</b> ASTM C-531	2 x 10 <sup>-5</sup>
<b>Cure Time (System Topcoat)</b>	2-24 Hours for Foot Traffic (varies by topcoat)

# 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.

# MAINTENANCE

After completing the application of **KEY URECON CHIP 100**, 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.

**KEY URECON CHIP 100** 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.

# 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 Resin Sales/Technical Representatives** are available to assist you. Telephone (888)943-4532 or visit [www.keyresin.com](http://www.keyresin.com).