



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 slurry, epoxy resin 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. Topcoats consist of pigmented and clear epoxy resin and clear urethane or polyaspartic resin.

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 material 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 Representative** in your area for details.

TECHNICAL DATA

System Performance Properties

Flammability ASTM D-635	Self Extinguishing
Fungus & Bacteria Growth MIL-F-52505§4.4.2.11	Will not support growth of fungus or bacteria when subjected to mildew and bacterial tests.
Hardness	85-90 Shore D
Bond Strength to Concrete ACI COMM #403, Bulletin 59-43	400 psi (100% concrete failure)
Flexural Strength ASTM C-580	4,000 psi
Coefficient of Friction ASTM D-2047	0.80
Water Absorption ASTM D-570	Nil
Thermal Shock Resistance ASTM C-884	Passes
Abrasion Resistance ASTM C-501	32 mg
Compressive Strength ASTM C-579, 7 days	10,000 psi
Tensile Strength ASTM C-307	2,400 psi
Density	125-130 ft ³
Thermal Coefficient of Expansion ASTM C-531	2×10^{-5}
Cure Time (System)	24 Hours for Foot Traffic (Varies by topcoat)

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 Representatives** are available to assist you at any time. CALL (888) 943-4532.

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) 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.