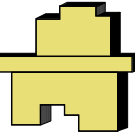


KEY RESIN COMPANY



# KEY CHIP-100 FLOORING

## DESCRIPTION

**KEY CHIP-100 FLOORING** is a 100% solids, decorative, seamless, low maintenance, floor coating system specially formulated to produce a dense, non-porous, decorative, chemical and dirt resistant floor ideal for light to medium traffic areas. **KEY CHIP-100 FLOORING** can be sealed to meet your chemical and abrasion resistance performance needs.

## KEY ADVANTAGES

- Excellent Wear & Abrasion Resistance
- Low Maintenance
- Safe (non-skid)
- Low-Odor Installation can be installed in occupied facilities
- Chemical Resistant Finishes are Available

## KEY CONSIDERATIONS

- On or below grade installation must have an efficient vapor barrier under the slab. Special treatments are necessary where hydrostatic pressure or moisture vapor transmission may be present.
- Substrate temperature must be a minimum of 55°F.
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials.
- All control joints and expansion joints in the substrate must be revealed with the appropriate divider strips in the topping.

## TYPICAL USES

**KEY CHIP-100 FLOORING** is the ideal choice for use in light to medium traffic areas such as classrooms, corridors, hotel/motel bathrooms and lobbies, and stock room floors.

## 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

<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 bacteria tests.
<b>Hardness</b> ASTM D-2240	70-75 Shore D
<b>Bond Strength to Concrete</b> ACI COMM #403, Bulletin 59-43	300 psi (100% concrete failure)
<b>Resistance to Elevated Temperature</b> MIL-D-3134F §4.7.4	No slip or flow at required temperature of 158°F
<b>Coefficient of Friction</b> ASTM D-2047	0.80 (with non-skid aggregate)
<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>Impact Resistance</b> MIL-D-3134F §4.7.3	Withstands 16 ft./lbs. without cracking, delamination, or chipping.
<b>Compressive Strength</b> ASTM C-579, 7 days	10,000 psi
<b>Tensile Strength</b> ASTM C-307	2,400 psi
<b>Thermal Coefficient of Expansion</b> ASTM C-531	22 x 10 <sup>-6</sup>

## Neat Resin Performance Properties

<b>Compressive Strength</b> ASTM D-695	13,000 psi
<b>Ultimate Tensile Strength</b> ASTM D-638	4,200 psi
<b>Tensile Elongation</b> ASTM D-638	6-8%
<b>Flexural Strength</b> ASTM D-790	7,800 psi
<b>Flexural Modulus</b> ASTM D-790	2.5 x 10 <sup>5</sup>
<b>Hardness</b> ASTM D-2240	65-85 Shore D

## COMPOSITION

**KEY CHIP-100 FLOORING** is composed of pigmented, 100% solids base coats with a variety of graded colored broadcast chips that can be modified to create the best design mix for ideal performance. A wide selection of finish coats is available to meet various exposure requirements.

## 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.

Installation of **KEY CHIP-100 FLOORING** involves several steps including priming, applying base coats, broadcasting decorative color chips, and sealing. For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

## MAINTENANCE

After completing the application of **KEY CHIP-100 FLOORING**, 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 CHIP-100 FLOORING** 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.

## COLOR & AVAILABILITY

**KEY CHIP-100 FLOORING** is available in a variety of standard colors. Custom colors are available subject to laboratory approvals, minimum quantities, lead time for production and increased cost. Colors will not fade or wear thin.

**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

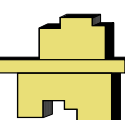
**Key Resin Company** and **KRC Associates, Inc.** provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **KEY REPRESENTATIVES** are available to assist you at any time. CALL (888)943-4532.

**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.



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Key Chip-100 Flooring-2