



# KEY QUARTZ CHIP 100

## DESCRIPTION

**KEY QUARTZ CHIP 100** is a nominal 90 mil polymer flooring system consisting of an epoxy or urethane resin primer coat reinforced with colored quartz aggregate, a polyaspartic base coat broadcasted with decorative colored chips (flakes), and a clear polyaspartic sealer. The installed system reduces porosity and produces a dense, sanitary finish that minimizes bacterial growth and chemical penetration. The finish can be made non-slip resistant as required for wet areas.

## KEY ADVANTAGES

- Seamless, Sanitary Floor
- High Impact and Wear Resistance
- Low Maintenance
- Safe (non-slip)
- Chemical Resistant Finish
- Decorative Appearance
- Moisture Vapor Tolerant Primer Available

## KEY CONSIDERATIONS

- Should be applied when temperature is between 60°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 substrate must be filled with epoxy repair material.

## COMPOSITION

**KEY QUARTZ CHIP 100** is a polymer flooring system consisting of an epoxy or urethane resin primer coat reinforced with colored quartz aggregate, a polyaspartic base coat broadcasted with decorative colored chips (flakes), and a clear polyaspartic sealer. An optional urethane sealer is also available.

## TYPICAL USES

**KEY QUARTZ CHIP 100** is a system ideal for use in corridors, restrooms/lockers, cafeterias, laboratories, light manufacturing areas, or numerous other areas requiring a chemical resistant, sanitary, wear resistant and decorative 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 and required moisture vapor testing.

For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

## COLOR & AVAILABILITY

**KEY QUARTZ 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

<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>	80-90 Shore D
<b>Bond Strength to Concrete</b> ACI COMM #403, Bulletin 59-43	300-400+ psi (100% concrete failure) Varies by concrete strength
<b>Flexural Strength</b> ASTM C-580	4,300 psi
<b>Coefficient of Friction</b> ASTM C-1028M	0.9 Average Varies by addition of non-skid grit and topcoat used
<b>Water Absorption</b> ASTM D-570	Nil
<b>Thermal Shock Resistance</b> ASTM C-884	Passes
<b>Abrasion Resistance</b> ASTM D-4060	32 mg
<b>Compressive Strength</b> ASTM C-579, 7 days	11,500 psi
<b>Tensile Strength</b> ASTM C-307	2,400 psi
<b>Impact Resistance</b> MIL-D-3134F §4.7.3	Withstands 16 ft./lbs. without cracking, chipping or delamination
<b>Thermal Coefficient of Expansion</b> ASTM C-531	$22 \times 10^{-6}$
<b>Cure Time (System)</b>	8-24 Hours for light foot traffic Varies by topcoat used

## MAINTENANCE

After completing the application of **KEY QUARTZ 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 QUARTZ 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. Refer to Technical Bulletins #3 and #3-A for additional information.

## 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. Telephone (888)943-4532 or visit [www.keyresin.com](http://www.keyresin.com)

## 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.