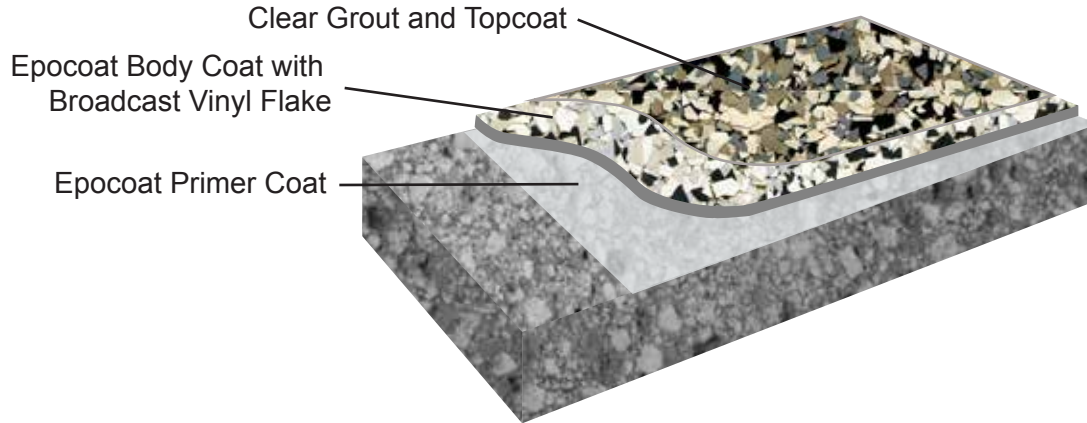


# KEY DIAMOND CHIP FLOORING

Technical Data Sheet



## DESCRIPTION

**KEY DIAMOND CHIP FLOORING** is a 1/8" moisture tolerant decorative resin floor system which incorporates the KEY EPOCOAT technology, a unique water-based epoxy technology allowing for installation on new concrete (5 days old) or any concrete substrate emitting excessive moisture vapor without fear of moisture related blistering or delamination. **KEY DIAMOND CHIP FLOORING** is sealed with various topcoats to meet particular performance requirements. **KEY DIAMOND CHIP FLOORING** is ideal for any project with a requirement for USGBC LEED certification. Typical uses include corridors, lobbies, light manufacturing areas, classrooms, cafeterias, general purpose use, and numerous other areas.

## KEY ADVANTAGES

- Meets USGBC LEED criteria for low VOC
- Low odor—can be installed in occupied facilities
- Decorative appearance
- Unlimited concrete moisture vapor tolerance
- May be installed over five day old concrete
- Safe (slip resistant finish with optional anti-slip grit)
- Sanitary, does not support mold growth
- Easy to install
- Minimal downtime
- Chemical resistant finishes are available
- Meets USDA requirements
- Available with Bioclean antimicrobial additive if needed

## TYPICAL USES

- Corridors and lobbies
- Light manufacturing
- Classrooms and cafeterias
- Toilet and Locker Rooms
- General purpose areas
- Numerous other uses—consult with **Key Resin**

## PHYSICAL PROPERTIES

Test Name	Method	Value
Color	Key Standard	Blended Colors and Custom Blended Colors
VOC (Volatile Organic Content)	EPA Method 24	Refer to Individual Product Component Data Sheet
Adhesion to Concrete	ASTM D7234	300-400+ psi (Concrete Failure, varies by concrete strength)
Compressive Strength	ASTM C579	5,500 psi
Flexural Strength	ASTM C580	2,100 psi
Hardness, Shore D	ASTM D2240	70-75
Cure Time		Varies with Topcoat
Flammability	ASTM D635	Self Extinguishing
Abrasion Resistance	ASTM D4060, CS17 Wheel, 1000 cycles	Varies with Topcoat
Impact Resistance	MIL-D-3134J	Withstands 16 ft-lbs without cracking, delamination or chipping
Resistance to Elevated Temperatures	MIL-D-3134J	No slip or flow at required temperature of 158°F
Slip Resistance	ASTM D2047	>0.6 Passes ADA recommendations

# KEY DIAMOND CHIP FLOORING

Technical Data Sheet



## APPLICATION

### SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared and tested for moisture as outlined in **Key Resin Technical Bulletin #1**. Work must be performed by experienced contractors. The **Key Resin Technical Service Department** is available to answer any questions.

### INSTALLATION

**KEY DIAMOND CHIP** material components are mixed on site. Refer to the detailed installation instructions document and **Key Resin Technical Service**.

### CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner. Consult Safety Data Sheet (SDS) for safety and health precautions.

## MAINTENANCE

After completing the application of **KEY DIAMOND CHIP FLOORING**, the installer should provide the owner with maintenance instructions. **KEY DIAMOND CHIP** is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing using the appropriate pad is recommended for all surfaces having a slip resistant texture. Refer to **Key Resin Technical Bulletins #3 and #3-A** for additional recommendations. Note: Office chairs should use a floor mat for additional protection of the floor finish.

## SYSTEM OPTIONS

- Fast cure sealer formulations
- UV light resistance formulations
- Urethane, polyaspartic finishes
- Chemical resistant finishes

## TECHNICAL SERVICE

**Key Resin Company** provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **Key Resin Representatives** are available to assist. Telephone **888.943.4532** or visit **www.keyresin.com**.

## AVAILABILITY

**Key Resin** flooring systems are available throughout the United States, Canada, China, and a number of other countries. Contact the **Key Resin Representative** in your area for details.

## 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.



**CORPORATE OFFICE / EASTERN US / INTERNATIONAL**  
4050 Clough Woods Drive . Batavia, OH 45103  
513.943.4225 888.943.4532 www.keyresin.com



Rev 1/1/2017

**WESTERN US**  
1315 E. Gibson, Suite D . Phoenix, AZ 85034  
602.523.9353