



DESCRIPTION

KEY QUARTZ COMMERCIAL is a 3/16”-1/4” decorative resin flooring system consisting of a troweled base, 100% solids epoxy resin and colored quartz aggregate broadcast finish. This durable quartz system provides decorative, heavy-duty protection. **KEY QUARTZ COMMERCIAL** is finished with various options of clear epoxy, polyaspartic or urethane resins, in satin or gloss to meet project requirements. The installed system can be textured or smooth as desired. Ease of cleaning and maintenance minimizes bacterial growth. The decorative quartz aggregate is available in a series of pre-blended patterns or solid colors. Crack-resistant installations of **KEY QUARTZ COMMERCIAL** can be achieved when installed in conjunction with **KEY #580 Waterproofing and Crack Isolation Membrane**. An integral cove base can be installed in areas requiring seamless floor to wall finishes. For high chemical resistant applications specify **KEY QUARTZ COMMERCIAL-HP** or **KEY RESISTANT QUARTZ COMMERCIAL**.

KEY ADVANTAGES

- Decorative appearance
- High wear, impact, and abrasion resistance
- Low maintenance
- Safe (slip resistant finish)
- Chemical resistant finishes are available
- Meets USGBC LEED criteria for low VOC

TYPICAL USES

- Corridors
- Restrooms and locker rooms
- Kitchen areas
- Food and beverage processing
- Shower rooms
- Cafeterias
- Laboratories
- Animal housing
- Production, manufacturing areas
- Government and military facilities
- Healthcare facilities
- Numerous other uses—consult with **Key Resin**

PHYSICAL PROPERTIES

Test Name	Method	Value
Color		Key Standard and Custom Quartz Blends
VOC (Volatile Organic Content)	EPA Method 24	Refer to Individual Product Component Data Sheet
Adhesion to Concrete	ASTM D7234	300-400+ psi Concrete Failure
Compressive Strength	ASTM C579	14,000 psi
Flexural Strength	ASTM C580	4,200 psi
Hardness, Shore D	ASTM D2240	80-84
Tensile Strength	ASTM C307	2,400 psi
Flammability	ASTM D635	Self Extinguishing
Abrasion Resistance	ASTM D4060, CS17 Wheel, 1000 cycles	32 mg
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

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**. If moisture testing confirms excessive levels of moisture, apply moisture mitigation system recommended by **Key Resin**. Work must be performed by experienced contractors. The **Key Resin Technical Service Department** is available to answer any questions.

INSTALLATION

KEY QUARTZ COMMERCIAL 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 QUARTZ COMMERCIAL**, the installer should provide the owner with maintenance instructions. **KEY QUARTZ COMMERCIAL** 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.

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.

SYSTEM OPTIONS

- Fast cure formulations
- UV light resistance formulations
- Cold cure formulations
- Urethane, polyaspartic finishes
- Chemical resistant finishes
- Crack-isolation flexible membrane
- Moisture tolerant base coats

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 Sales/Technical Representatives** are available to assist. Telephone 888.943.4532 or visit www.keyresin.com.

AVAILABILITY

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

