



## DESCRIPTION

**KEY ESD QUARTZ** is a 65-80 mil decorative epoxy colored quartz floor system showing excellent static control properties. The durable **KEY ESD QUARTZ** has a textured finish for sound footing. The decorative quartz aggregates are available in a series of pre-blended patterns combined with conductive fillers. **KEY ESD QUARTZ** provides a decorative surface for areas such as electronic parts assembly, server assembly, pharmaceutical processing, and static control applications which require excellent abrasion and stain resistance. Crack-resistant installations of **KEY ESD QUARTZ** 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.

## KEY ADVANTAGES

- Good chemical and stain resistance
- Decorative appearance
- Meets USGBC LEED criteria for low VOC
- Gloss finish
- Low maintenance
- Good abrasion resistance
- Body Voltage Generation (BVG) below 100 volts conforming with ANSI/ESD S20.20 standard
- Tests in the static dissipative range of  $1 \times 10^6$  to  $1 \times 10^9$  ohms conforming with ANSI/ESD S20.20
- Dissipates a 5000 volt charge to zero in less than 0.1 seconds @ 72° and 12% RH

## TYPICAL USES

- Electronic parts assembly areas
- Server assembly areas
- Pharmaceutical processing areas
- 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, varies by concrete strength)
Compressive Strength	ASTM C579	12,600 psi
Flexural Strength	ASTM C580	4,300 psi
Hardness, Shore D	ASTM D2240	80-84
Tensile Strength	ASTM C307	2,600 psi
Flammability	ASTM D635	Self Extinguishing
Abrasion Resistance	ASTM D4060, CS17 Wheel, 1000 cycles	10-20 mgs
Resistance to Elevated Temperatures	MIL-D-3134J	No slip or flow at required temperature of 158°F
Conductivity	ASTM F150-06	$1 \times 10^6$ - $1 \times 10^9$ ohms
Static Charge Decay	MIL-B-81705B	Dissipates 5000 volt charge to zero in less than 0.1 sec @ 72°F and 12% RH

# KEY ESD QUARTZ

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

- 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](http://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.

