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

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Key Standard and Custom Quartz Blends</td>
<td></td>
</tr>
<tr>
<td>VOC (Volatile Organic Content)</td>
<td>EPA Method 24</td>
<td>Refer to Individual Product Component Data Sheet</td>
</tr>
<tr>
<td>Adhesion to Concrete</td>
<td>ASTM D7234</td>
<td>300-400+ psi (Concrete Failure, varies by concrete strength)</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM C579</td>
<td>12,600 psi</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>ASTM C580</td>
<td>4,300 psi</td>
</tr>
<tr>
<td>Hardness, Shore D</td>
<td>ASTM D2240</td>
<td>80-84</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM C307</td>
<td>2,600 psi</td>
</tr>
<tr>
<td>Flammability</td>
<td>ASTM D635</td>
<td>Self Extinguishing</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4060, CS17 Wheel, 1000 cycles</td>
<td>10-20 mgs</td>
</tr>
<tr>
<td>Resistance to Elevated Temperatures</td>
<td>MIL-D-3134J</td>
<td>No slip or flow at required temperature of 158°F</td>
</tr>
<tr>
<td>Conductivity</td>
<td>ASTM F150-06</td>
<td>$1 \times 10^6$ - $1 \times 10^9$ ohms</td>
</tr>
<tr>
<td>Static Charge Decay</td>
<td>MIL-B-81705B</td>
<td>Dissipates 5000 volt charge to zero in less than 0.1 sec @ 72°F and 12% RH</td>
</tr>
</tbody>
</table>
**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.

**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.

**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.