**KEY EPOXY TERRAZZO**

**DESCRIPTION**

*KEY EPOXY TERRAZZO* is a highly decorative flooring system that combines pigmented 100% solids epoxy resin with marble, colored glass, granite, or other approved aggregates and is trowel applied at 1/4” to 3/8” nominal thickness and ground and polished to expose a beautiful matrix of epoxy and aggregates. *KEY EPOXY TERRAZZO* provides outstanding durability and wear resistance resulting in the lowest life cycle cost of any flooring system available. *KEY EPOXY TERRAZZO* is available in conductive and highly chemical resistant epoxy novolac formulations. Crack and movement bridging installations of *KEY EPOXY TERRAZZO* can be provided when installed in conjunction with a *KEY #580 Waterproofing and Crack Isolation Membrane*.

**KEY ADVANTAGES**

- Extensive color selection allows for unlimited design variations
- Colors will not fade or wear thin
- Chemical and stain resistant
- High wear, impact and abrasion resistance
- Rapid cure and finishing time
- Less weight than marble, granite and cement terrazzo, more suitable for multi-story buildings
- Low odor during application and cure, can be applied in occupied buildings
- Low maintenance, sanitary
- Resists bacteria and fungal growth
- Lowest life-cycle cost decorative flooring available
- Low odor for use in occupied areas
- Meets USGBC LEED criteria for low VOC
- Meets NTMA and TTMAC standards for epoxy terrazzo
- Key Resin Company is a member of the NTMA and TTMAC

**TYPICAL USES**

- Office complexes
- Commercial applications
- Lobbies and corridors
- Arenas/Stadiums/Coliseums
- Airports
- Government facilities
- Libraries
- Schools and universities
- Hospitals and other healthcare facilities
- Residential
- 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>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>10,000 psi</td>
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<tr>
<td>Flexural Strength</td>
<td>ASTM C580</td>
<td>3,000 psi</td>
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<tr>
<td>Tensile Strength</td>
<td>ASTM C307</td>
<td>2,500 - 2,600 psi</td>
</tr>
<tr>
<td>Thermal Shock Resistance</td>
<td>ASTM C884</td>
<td>Passes</td>
</tr>
<tr>
<td>Thermal Coefficient of Linear Expansion</td>
<td>ASTM C531</td>
<td>25 x 10^-6 inches per inch per degree ºF to 140ºF maximum</td>
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<tr>
<td>Resistance to Elevated Temperature</td>
<td>MIL-D-3134F §4.7.4</td>
<td>No slip or flow at required temperature of 158ºF</td>
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<tr>
<td>Indentation</td>
<td>MIL-D-3134F §4.7.4</td>
<td>Withstands 2,000 lbs-in² for 30 mins with no indentation</td>
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<tr>
<td>Impact Resistance</td>
<td>MIL-D-3134F §4.7.4</td>
<td>Withstands 16 ft-lbs without cracking, delamination or chipping</td>
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<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4060, CS17 Wheel, 1000 cycles</td>
<td>35 mg</td>
</tr>
<tr>
<td>Critical Radiant Flux</td>
<td>ASTM D-648</td>
<td>1.0 mg</td>
</tr>
<tr>
<td>Electrical Conductivity</td>
<td>Non-Conductive Conductive Available</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>ASTM D635</td>
<td>Self Extinguishing over concrete</td>
</tr>
<tr>
<td>Fungus and Bacterial Growth</td>
<td>MIL-F-52505 §4.4.2.11</td>
<td>Will not support growth of fungus or bacteria</td>
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<tr>
<td>Water Absorption</td>
<td>ASTM D570</td>
<td>0.010%</td>
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<tr>
<td>Slip Resistance</td>
<td>ASTM D2047 ANSI 131.1</td>
<td>&gt;0.6 Passes ADA</td>
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<tr>
<td></td>
<td></td>
<td>&gt;0.42 Passes ANSI</td>
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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 EPOXY TERRAZZO material components are mixed on site, poured and troweled, followed with grinding, polishing and sealing. 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 EPOXY TERRAZZO the installer should provide the owner with maintenance instructions. KEY EPOXY TERRAZZO is easily cleaned with neutral soaps or detergents. For specific care and maintenance guidelines, refer to the Key Epoxy Terrazzo Maintenance Guidelines Bulletin. Key Resin Technical Bulletin #3 and #3A can also be referenced for additional recommendations.

SYSTEM OPTIONS
- Conductive formulation
- High chemical resistance formulation
- Crack and movement bridging installations
- Rapid cure formulations for minimal finishing time

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.

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.