**KEY URECON CHIP 100**

**Technical Data Sheet**

**DESCRIPTION**

KEY URECON CHIP 100 is a 3/16"-1/4" moisture vapor tolerant polymer flooring system consisting of Key Urecon SL or Key Urecon 16, a urethane/cementitious slurry and a colored decorative chip broadcast finish. KEY URECON CHIP 100 is finished with various options of clear satin or gloss topcoats to meet project requirements. The installed system reduces porosity and produces a dense, slip resistant sanitary finish that minimizes bacterial growth and chemical penetration. The decorative chips are available in a series of pre-blended or solid colors. An integral cove base can be installed in areas requiring seamless wall to floor transitions. For chemical resistant applications and kitchens, specify KEY URECON CHIP-HP.

**KEY ADVANTAGES**

- Decorative appearance
- Seamless, sanitary floor
- Will not lose bond due to excess moisture in the slab
- Thermal shock resistant
- High impact and wear resistance
- Low maintenance
- Meets USGBC LEED criteria for low VOC
- Safe (slip resistant finish) with optional non-skid additive
- Chemical resistant finishes are available
- Meets USDA requirements
- Available with Bioclean antimicrobial additive if needed

**TYPICAL USES**

- Corridors
- Restrooms/locker rooms
- Kitchens
- Cafeterias
- Laboratories
- Manufacturing/processing areas
- Pharmaceutical manufacturing areas
- Bottling/packaging 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 Color Blends and Custom Blend Colors</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>7,700 psi</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>ASTM C580</td>
<td>2,600 psi</td>
</tr>
<tr>
<td>Hardness, Shore D</td>
<td>ASTM D2240</td>
<td>80-85</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM C307</td>
<td>1,100 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>32 mg average Varies by topcoat</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>MIL-D-3134J</td>
<td>Withstands 16 ft-lbs without cracking, delamination or chipping</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>Slip Resistance</td>
<td>ASTM D2047</td>
<td>&gt;0.6 Passes ADA recommendations</td>
</tr>
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</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 URECON CHIP 100 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 URECON CHIP 100, the installer should provide the owner with maintenance instructions. KEY URECON CHIP 100 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
• Fast cure formulations
• UV light resistance formulations
• Urethane, polyaspartic, epoxy, MMA 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 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 at 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.