KEY URECON TG
Product Information Sheet

DESCRIPTION

KEY URECON TG is a 1/4”–3/8” heavy duty, trowel applied urethane modified cementitious topping. Ideal for heavy duty traffic areas, KEY URECON TG exhibits high impact resistance and excellent thermal shock and chemical resistance. KEY URECON TG is a moisture vapor tolerant system making it the ideal solution for many moisture problems. KEY URECON TG may be used both indoors and outdoors and in areas where freeze/thaw is a factor. Its textured surface reduces slipping under most wet conditions. Excellent for rehabbing old floors, KEY URECON TG provides a much stronger, longer lasting, and attractive surface. KEY URECON TG is the key choice for wet areas, dairies, food processing areas, and industrial kitchens. KEY URECON TG can be installed with an integral cove base for areas requiring seamless wall to floor systems, it will not support the growth of fungus or bacteria.

KEY ADVANTAGES

• High impact, thermal shock, and wear resistance
• Excellent chemical resistance
• Low odor for use in occupied areas
• Meets USGBC LEED criteria for low VOC
• Hygienic—will not support growth of fungus or bacteria
• Moisture vapor tolerant system; up to 95% RH probe test and 15 lbs calcium chloride test
• Chemical resistant sealers are available
• Meets USDA requirements
• Rapid one step application for fast return to service

APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in Key Resin Technical Bulletin #1. Work must be performed by trained or experienced contractors or maintenance personnel. The Key Resin Technical Service Department is available to answer any questions.

MIXING INSTRUCTIONS

Mechanical mixing is required. Add Part I and Part II in running mixer and blend until uniform (about 30 seconds). Add Part III aggregate and pigment pack slowly to mix and blend for 1 more minute. Use immediately.

INSTALLATION

KEY URECON TG is installed using a steel trowel. Refer to detailed installation instructions document and Key Resin Technical Service for additional important details.

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 TG, the installer should provide the owner with maintenance instructions. KEY URECON TG is easily cleaned with neutral soaps or detergents. Refer to Key Resin Technical Bulletin #3 and #3A for additional recommendations.

COMPOSITION

KEY URECON TG is a urethane modified, portland cement system blended with a variety of graded silica, or ceramic fillers.

KEY CONSIDERATIONS

• Should be applied when temperature is between 50°F and 85°F
• Site must be free from condensation or water contamination during application and cure
• Concrete substrate must be free of dirt, waxes, curing agents, and other foreign materials
• Expansion joints in the substrate must be revealed through the topping and filled with urethane sealant
• Movement of substrate cracks may transmit through system

COLOR SELECTION

Refer to Key Dry Oxide Pigment Colors Chart. Price surcharge for Dark/Light Blue, Green. May also use Key Urethane Pigment Packs at additional cost. Light colors may become altered with exposure to UV spectrum light.

CURE/DRY TIME

<table>
<thead>
<tr>
<th></th>
<th>Working Life</th>
<th>Reccoat*</th>
<th>Light Foot Traffic Service</th>
<th>Light Vehicular Traffic</th>
<th>Full Cure &amp; Max. Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10-15 mins @ 75°F, 50% RH</td>
<td>6-8 hrs @ 75°F, 50% RH</td>
<td>8-10 hrs @ 75°F, 50% RH</td>
<td>12-16 hrs @ 75°F, 50% RH</td>
<td>3-5 days @ 75°F, 50% RH</td>
</tr>
</tbody>
</table>

(*Accelerator Additive reduces time)
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TECHNICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing Ratio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (liquids)</td>
<td>ASTM D2240</td>
<td>80-85</td>
</tr>
<tr>
<td>Volatile Organic Content (VOC)</td>
<td>ASTM C580</td>
<td>0.10%</td>
</tr>
<tr>
<td>Fungus and Bacteria Growth</td>
<td>MIL-F-52505 §4.4.2.11</td>
<td>Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests</td>
</tr>
<tr>
<td>Hardness, Shore D</td>
<td>ASTM D2240</td>
<td>80-85</td>
</tr>
<tr>
<td>Adhesion to Concrete</td>
<td>ASTM D7240</td>
<td></td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>ASTM C580</td>
<td>2,000 psi</td>
</tr>
<tr>
<td>Coefficient of Friction</td>
<td>ASTM D2047</td>
<td>0.80</td>
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<tr>
<td>Water Absorption</td>
<td>ASTM D570</td>
<td>0.10%</td>
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<tr>
<td>Thermal Shock Resistance</td>
<td>ASTM C884</td>
<td>Passes</td>
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<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4060 CS17 Wheel, 1000 cycles</td>
<td>50 mgs</td>
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<tr>
<td>Impact Resistance</td>
<td>MIL-F-3134J</td>
<td></td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM C579, 7 days</td>
<td>7,500 psi</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM C307</td>
<td>800 psi</td>
</tr>
<tr>
<td>Thermal Coefficient of Expansion</td>
<td>ASTM C531</td>
<td>1.1 x 10^-6 in/in/per °F</td>
</tr>
<tr>
<td>Service Temperature Resistance</td>
<td></td>
<td>-50 – 240°F wet, 280°F wet intermittent, 350°F dry</td>
</tr>
</tbody>
</table>

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

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 you. Telephone 888.943.4532 or visit www.keyresin.com.

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