KEY VINYL ESTER PRIMER
Product Information Sheet

DESCRIPTION
KEY VINYL ESTER PRIMER is a high elongation vinyl ester resin primer used with all Key Vinyl Ester Systems. Its high elongation properties mitigates stress between the vinyl ester bodycoat/topcoat and the substrate.

KEY ADVANTAGES
• Excellent adhesion to concrete and steel substrates
• Compatible with all Key Vinyl Ester Systems
• High elongation mitigates stress between the vinyl ester bodycoat/topcoat and the substrate

APPLICATION
SURFACE PREPARATION
Surface Preparation is the most critical portion to 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.

INSTALLATION
KEY VINYL ESTER PRIMER is installed over a concrete or steel surface. For complete mixing and installation instructions, consult the installation instructions document for the specified system and contact 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.

COLOR SELECTION
KEY VINYL ESTER PRIMER is available in Amber Clear. The addition of graphite filler (when specified) yields a dark charcoal gray.

COVERAGE
KEY VINYL ESTER PRIMER is typically applied on concrete at 160-200 ft² per gallon yielding approximately 8-10 mils wft (5-7 mils dft).

COMPOSITION
Vinyl ester resin with styrene.

CHEMICAL RESISTANCE
Refer to the specified Key Vinyl Ester System, contact Key Resin Technical Service for any chemicals not listed.

KEY CONSIDERATIONS
• Substrate temperature must be a minimum of 50°F
• Substrate must be free of excess moisture transmission, paint, curing agents, and other foreign materials which can prevent proper bond
• Substrate irregularities may transmit through finish depending on system thickness
• Vinyl ester resin has a characteristic styrene odor during application and cure, use proper ventilation

CURE/DRY TIME

<table>
<thead>
<tr>
<th></th>
<th>Working Life*</th>
<th>Recoat* (Min-Max)</th>
<th>Light Traffic*</th>
<th>Full Cure &amp; Max. Resistance*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12-15 min @ 75°F, 50% RH</td>
<td>5-72 hrs @ 75°F, 50% RH</td>
<td>24 hrs @ 75°F, 50% RH</td>
<td>3 days @ 75°F, 50% RH</td>
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</tbody>
</table>

*Cure time varies with temperature, air movement, humidity and thickness.
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TECHNICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing Ratio</td>
<td>1 gallon Part A to 2-4 oz Part B catalyst</td>
</tr>
<tr>
<td>Solids Content</td>
<td>85%, by volume</td>
</tr>
<tr>
<td>Volatile Organic Content (VOC)</td>
<td>205 g/L, compliant to high temp coating VOC Rule 1113</td>
</tr>
<tr>
<td>Flash Point</td>
<td>80°F</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>2-3 months @ 75°F</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.

MAINTENANCE

KEY VINYL ESTER PRIMER is used as a primer underneath other Key Vinyl Ester System materials. Refer to the appropriate system technical data sheet for maintenance instructions, or Key Resin Technical Bulletin #3 and #3-A.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesion to Concrete</td>
<td>ASTM D7240</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>Gardner Impact Tester</td>
</tr>
<tr>
<td>Flammability</td>
<td>ASTM D635</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Thermal Coefficient of Expansion</td>
<td>ASTM C531</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM D570</td>
</tr>
<tr>
<td>Tensile Elongation</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Fungus &amp; Bacterical Growth</td>
<td>MIL-F-52050 §4.4.2.11</td>
</tr>
</tbody>
</table>

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.

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