KEY #597-MVT PENETRATING PRIMER

Product Information Sheet

DESCRIPTION
KEY #597-MVT is a low viscosity, water-emulsion, penetrating epoxy primer designed for use as a moisture mitigation treatment on concrete with excessive moisture vapor transmission or moisture content. KEY #597-MVT will tolerate moisture transmission rates (MVT) up to 20 lbs. moisture per 1,000 square feet per 24 hours as tested according to ASTM F1869 and moisture content up to 95% relative humidity as tested according to ASTM F2170. If moisture tests exceed these limits contact Key Resin Technical Service for recommendations.

KEY ADVANTAGES
• Excellent adhesion to properly prepared concrete which has a minimum of 28 days cure
• Proven performance as a moisture mitigation primer
• Low-odor during application and cure
• Meets USGBC LEED criteria for IEQ 4.2 for low VOC
• Greatly reduces concrete outgassing
• Moisture tolerant up to 20 lbs. MVT and 95% RH

KEY CONSIDERATIONS
• Slab on grade must have a minimum 10 mil puncture resistant moisture vapor retarder
• Substrate temperature must be a minimum of 55°F
• Concrete must be free of dirt, curing agents, fiber reinforcement, densifiers, ASR byproducts, standing water, hydrostatic pressure, and other foreign materials
• Primer must absorb completely into concrete pores, do not puddle or apply a thick resin-rich surface layer
• For use on standard mix design concrete, special mix designs or high density mix designs must be reviewed with Key Resin Technical Service

COLOR SELECTION
KEY #597-MVT is available in clear formulation only. Milky emulsion when mixed, clear/amber when dry.

COMPOSITION
Water-borne epoxy resin/hardener.

COVERAGE
KEY #597-MVT is applied at approximately 200 ft² per gallon depending on porosity, except highly porous substrates may require more material.

CURE/DRY TIME

<table>
<thead>
<tr>
<th></th>
<th>Working Life</th>
<th>Dry to Touch</th>
<th>Dry Hard, light foot traffic</th>
<th>Recoat, minimum</th>
<th>Recoat, maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>60 min @ 75°F, 50% RH</td>
<td>1.5-2.0 hrs @ 75°F, 50% RH</td>
<td>5 hrs @ 75°F, 50% RH</td>
<td>12 hrs @ 75°F, 50% RH</td>
<td>Additional cure time required in cooler temps or very high humidity</td>
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<tr>
<td></td>
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<td>48 hrs @ 75°F, 50% RH</td>
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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.

RECOAT
KEY #597-MVT cure time for recoat is 12-48 hours at 75°F and 50% RH.
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TECHNICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids Content</td>
<td>38% mixed with water</td>
</tr>
<tr>
<td>Volatile Organic Content (VOC) (&lt;50 g/L, compliant to low VOC Rule 1113 in all 50 states)</td>
<td>8.75 lbs/gal, mixed</td>
</tr>
<tr>
<td>Weight/gal</td>
<td>8.75 lbs/gal, mixed</td>
</tr>
<tr>
<td>Viscosity @ 75°F</td>
<td>&lt;100 cps</td>
</tr>
</tbody>
</table>

MAINTENANCE

KEY #597-MVT is designed for use as a penetrating concrete primer and not a topcoat requiring maintenance information. Finished systems used in conjunction with KEY #597-MVT should be accompanied with proper maintenance guidelines.

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.

AVAILABILITY

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

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesion to Concrete</td>
<td>ASTM D7234 300-400+ psi (Concrete Failure, varies by concrete strength)</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.