Introducing
Limitless Bonding
For Limitless Medical Device Design

LOCTITE® Universal Structural Bonders—so strong, versatile and durable, the possibilities are limitless.

You’ve been there before: the inspiration strikes for a great new design, but the limitations of the real world—materials, technologies, systems—make it a challenge to bring to life.

Powered by innovative hybrid technology, LOCTITE® Universal Structural Bonders combine the speed of instant adhesives with the strength and durability of structural adhesives. The versatility of LOCTITE® Universal Structural Bonders make it possible to use structural bonders in more ways—and for more applications—than ever before.

Simplified production processes. Fast fixture. Safe application. Bringing the dream of the perfect design to life.

Expanding Your Design Solutions.

With the addition of LOCTITE® Universal Structural bonding adhesives, Henkel offers an extremely broad portfolio of structural bonding products to meet virtually any medical design requirement.
**LOCTITE® HY 4090™**

**Fast and Versatile Structural Bonder.**

LOCTITE® HY 4090™ is a very fast fixturing hybrid adhesive. It is designed to bond a variety of substrates including metals, most plastics and rubbers. This product is suitable for applications in high temperature/humidity environments. The thixotropic nature makes it suitable for applications where good gap-filling properties on rough and poorly fitting surfaces are required.

<table>
<thead>
<tr>
<th><strong>Product</strong></th>
<th><strong>Item Number</strong></th>
<th><strong>Pack</strong></th>
<th><strong>Recommended Mixing Nozzle (Item Number)</strong></th>
<th><strong>Color/Viscosity</strong></th>
<th><strong>Mix Ratio</strong></th>
<th><strong>Fixture Time (GBMS)</strong></th>
<th><strong>Working Time</strong></th>
<th><strong>Elongation</strong></th>
<th><strong>Temperature Resistance</strong></th>
<th><strong>Steel (Grit Blasted)</strong></th>
<th><strong>ABS</strong></th>
<th><strong>Polycarbonate</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCTITE® HY 4090™</td>
<td>2123350</td>
<td>50 ml</td>
<td>1573153</td>
<td>Off-white to Light Yellow Gel</td>
<td>1:1</td>
<td>4-6 minutes</td>
<td>3-5 minutes</td>
<td>3-4%</td>
<td>150°C</td>
<td>16-18</td>
<td>4-6</td>
<td>5-7</td>
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<tr>
<td></td>
<td>2060035</td>
<td>400 ml</td>
<td>1573135</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOCTITE® HY 4092™ GY</td>
<td>2217142</td>
<td>50 ml</td>
<td>1573153</td>
<td>Grey Liquid</td>
<td>1:1</td>
<td>&lt; 25 minutes</td>
<td>3-5 minutes</td>
<td>70-75%</td>
<td>150°C</td>
<td>8-10</td>
<td>1-3</td>
<td>1-2</td>
</tr>
<tr>
<td></td>
<td>2217128</td>
<td>400 ml</td>
<td>1573135</td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

†ISO 4587, After 24 hours, 22°C | Contact your Henkel Representative for a Technical Data Sheet

**Dispensing Options:**

LOCTITE® Universal Structural Bonders can be efficiently dispensed using manual or pneumatic handheld dispensers. See equipment.loctite.com for more details.

Applicator and mixing nozzles sold separately

**ISO™ 10993 biocompatible – for the assembly of disposable medical devices

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