

**LOCTITE®**



# 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.

**Henkel**



**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.



**LOCTITE® HY 4092™ GY**  
**Flowable and Flexible Structural Bonder.**

LOCTITE® HY 4092™ GY is a fast self-leveling hybrid adhesive designed for high performance potting applications as well as structural bonding. It is designed to bond a variety of substrates including metals, most plastics and rubbers. This product shows great resistance to impact, heat and humidity, and chemicals. The high elongation percent makes this product suitable for applications where flexibility and toughness are required.



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

Product	Item Number	Pack	Recommended Mixing Nozzle (Item Number)	Color/Viscosity	Mix Ratio	Fixture Time (GBMS)	Working Time	Elongation	Temperature Resistance	Lap Shear Strength† (N/mm²)		
										Steel (Grit Blasted)	ABS	Polycarbonate
<b>LOCTITE® HY 4090™</b>	2123350	50 ml	1573153	Off-white to Light Yellow Gel	1:1	4-6 minutes	3-5 minutes	3-4%	150°C	16-18	4-6	5-7
	2060035	400 ml	1573135									
<b>LOCTITE® HY 4092™ GY</b>	2217142	50 ml	1573153	Grey Liquid	1:1	< 25 minutes	3-5 minutes	70-75%	150°C	8-10	1-3	1-2
	2217128	400 ml	1573135									

†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](http://equipment.loctite.com) for more details.



Applicator and mixing nozzles sold separately

