

Introducing Limitless Bonding* For Limitless 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 the broadest portfolio of structural bonding products to meet virtually any design requirement.

LOCTITE HY 4090 Fast and Versatile Structural Bonder.



With a powerful combination of speed and strength, LOCTITE HY 4090 solves a wide range of design and assembly challenges. LOCTITE HY 4090 delivers both performance and versatility, with high strength bonding on a variety of substrates. It's the essential adhesive solution to address your design challenges.

Your Benefits:

- Suitable for a variety of substrates, including metals, most plastics and rubbers – opening up your design possibilities
- Fast fixture times even at low temperatures (5°C) – minimizing production delays
- Good moisture, temperature (up to 150°C) and chemical resistance – the bond will endure
- Impact and vibration resistant – the bond will endure
- Low blooming – maintains aesthetic appeal on opaque materials



LOCTITE HY 4080 GY Tough and Versatile Structural Bonder.



When your design calls for strong impact resistance, LOCTITE HY 4080 GY Structural Bonder is up to the challenge. Low odor and non-flammable, LOCTITE HY 4080 GY provides increased health and safety benefits over other traditional structural bonders. It's an ideal replacement for traditional 2-part Methyl Methacrylate Adhesives (MMA) and Acrylic structural bonding adhesives.

Your Benefits:

- Rapid strength development (full cure <24 hours) – improve throughput
- Excellent resistance to shock loading – the bond will endure
- Excellent bond strength on many substrates and high strength on plastics – opens design possibilities
- Non-flammable, no carcinogens, non-corrosive – increased health and safety for employees
- Good elasticity, for parts subject to relative movement

Product	Pack	Recommended Mixing Nozzle (Item #)	Colour/ Viscosity	Mix Ratio	Fixture Time (GBMS)	Working Time	Lap Shear Strength ¹ (N/mm ²)				Temperature Resistance
							Steel (Grit Blasted)	Aluminum (etched)	Polycarbonate	Nitrile	
LOCTITE HY 4090	50g	1826921	Slightly cloudy to light yellow gel	1:1	4-6 minutes	3-5 minutes	16-18	11-14	5-7	††	150°C
	400g	1573135									

Product	Pack	Recommended Mixing Nozzle (Item #)	Colour/ Viscosity	Mix Ratio	Fixture Time (GBMS)	Lap Shear Strength ¹ (N/mm ²)				Impact Strength @ omm gap (J)	Peel Strength (N/m)	Elongation
						Steel (Grit Blasted)	Aluminum (etched)	ABS	Nitrile			
LOCTITE HY 4080 GY	50g	1826921	Grey (mixed) Gel	1:1	9-11 minutes	25-28	22-25	††	††	17-19	6-8	80%
	400g	1573135										

¹ISO 4587, After 24 hours, 22°C | ††Bond exceeded strength of substrate | Contact your Henkel Representative for a Technical Data Sheet

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