

LOCTITE®



LOCTITE HY 4090 Universal Structural Bonder.

The most versatile bonder available.

THE PROBLEM

Traditional structural adhesives are just not versatile enough for many of today's industrial design and assembly applications:

- Only bond certain materials
- Take too long to fixture and cure
- Low strength
- Susceptible to chemicals, temperature extremes, impact or vibration

THE LOCTITE SOLUTION

LOCTITE HY 4090 can solve all of those problems. With the ability to design using today's lightweight materials, and providing for faster, more efficient manufacturing, it is redefining structural bonding:

- Material versatility opens up design options
- Fast fixture times, minimising production delays
- Fast strength build can mean more efficient manufacturing



Henkel

BENEFITS



1. Multi-Material Bonding

Some adhesives work fine on specific materials. But none can match the substrate versatility of LOCTITE HY 4090. Metal to metal. Metal to plastic. Metal to rubber. Plastic to plastic. You name it, LOCTITE HY 4090 can bond it.



2. Fast Strength Build

If a bond takes too long to cure, it can slow down your whole production line. LOCTITE HY 4090 fixtures in 4–6 minutes (even at low temperatures) and reaches 50% strength in 1 hour – faster than many high-performance epoxies or acrylics. It can actually accelerate your production process.



3. Strong, Durable Bond

Excellent balance of performance, speed, substrate versatility, and health and safety.

- Non-flammable
- Lower odour
- Temperature resistance up to 150°C
- Minimal health & safety labelling
- No isocyanates

LOCTITE HY 4090

Product	Item Number	Pack	Recommended Mixing Nozzle [IDH#]	Color/ Viscosity	Mix Ratio	Fixture Time	Working Time	Lap Shear Strength* [N/mm²]				Temperature Resistance
								Steel [Grit Blasted]	Aluminum [etched]	Poly-carbonate	Nitrile	
LOCTITE HY 4090	1178011, 2002581	50g, 400g	1573153, 1573135	Slightly cloudy to light yellow gel	1:1	4–6 min.	3–5 min.	16–18	11–14	5–7	**	150°C

*ISO 4587, after 22 hours, 22 °C; **Bond exceeded strength of substrate; Contact your Henkel Representative for Technical Data Sheet

LOCTITE Universal Bonders.
Almost Nothing They Can't Do.



LOCTITE's line of universal bonders have been engineered for substrate versatility, fast cure times and high strength. They can bond almost anything, quickly and hold up under conditions that can make other adhesives fail.

And when bonders can do all that, there's almost nothing they can't do.

Learn more about LOCTITE Universal Bonders and LOCTITE HY 4090 at henkel-adhesives.co.uk

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