

Tough Enough to Haul a Freight Train with 3 Grams & 1 Hour of Cure.

The Challenge:

Prove the speed, strength and durability of LOCTITE Universal Structural Bonders by pulling a 208-ton freight train.



The Method:

A connecting rig was designed by Henkel engineers. After cleaning and sanding the plates, 3 grams of LOCTITE Universal Structural Bonder were applied to the plate, and allowed to cure for 60 minutes. The coupler was connected between the engine and the first car.

For the rest of this incredible story, watch the results at www.loctite.co.uk/limitless

If LOCTITE Universal Structural Bonders can handle this, imagine how it can handle your toughest repair challenges.

The possibilities are limitless.

LEARN MORE

Contact us to learn more about LOCTITE HY 4070 and LOCTITE HY 4060 GY and Henkel's broad array of maintenance and repair solutions. Visit www.loctite.co.uk/limitless

LOCTITE

Henkel Ltd
Wood Lane End
Hemel Hempstead
Hertfordshire
HP2 4RQ
Tel 00 44 (0) 1442 278100

www.loctite.co.uk/limitless

*As used herein, "Limitless" and "universal" refer to the number of applications in which LOCTITE HY 4060 and LOCTITE HY 4070 may be used. It is not intended to mean that LOCTITE HY 4060 and LOCTITE HY 4070 bond all substrates under all conditions of use, nor should such usage be implied by any statement made in this brochure. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof.

All marks used are trademarks and/or registered trademarks of Henkel and its affiliates in the U.S., Germany and elsewhere. © 2017 Henkel Corporation. All rights reserved. www.loctite.co.uk/limitless

CAN HAUL 208 TONS.

THE TRAIN IS PRETTY STRONG TOO.

Introducing Limitless Bonding.

How tough are the new LOCTITE
Universal Structural Bonders?

Henkel

LOCTITE

Introducing Limitless Bonding* For Limitless Repair.

LOCTITE Universal* Structural Bonders – so strong, versatile and durable, the possibilities are limitless.

Nothing creates a feeling of pride more than a plant running smoothly. So when something goes down, time is of the essence. And every minute spent chasing down parts or rigging a fix is not just a mechanical challenge, but a personal one.

Powered by innovative hybrid technology, LOCTITE Universal Structural Bonders can help keep your plant running with repairs that are fast, easy and durable. **For Limitless Repair. When time is anything but.**



Essential in Any Toolbox.

LOCTITE Universal Structural Bonders are the newest additions to the portfolio of LOCTITE adhesives, sealants and protective coatings, helping industries around the world reduce maintenance costs, increase reliability, and improve the safety and efficiency of their plants and equipment.

LOCTITE HY 4070 Ultra-Fast, Universal Repair Adhesive.



With a powerful combination of speed and strength, LOCTITE HY 4070 solves virtually any repair challenge, when time is limited. Able to rapidly bond a variety of substrates with high strength performance, LOCTITE HY 4070 makes versatile repairs that are fast and easy. It's an essential repair adhesive.

Your Benefits:

- Ultra-fast fixture – reduces maintenance down time
- High gap filling capability – excellent for universal repairs
- Rapid bond strength on many materials such as metal, plastics, rubber, wood, paper, leather – opens repair possibilities
- A non-drip formula gel product – stays where applied
- Good moisture, temperature, UV and chemical resistance – long lasting reliable repairs
- Ready to use syringe package with nozzle – convenient



Available Autumn 2017

Product	Pack	Colour/ Viscosity	Mix Ratio	Fixture Time (GBMS)	Working Time	Lap Shear Strength ¹ (N/mm ²)				Gap Fill	Temperature Resistance
						Steel (Grit Blasted)	Aluminum (etched)	Polycarbonate	Nitrile		
LOCTITE HY 4070	11g	Slightly cloudy to light yellow gel	10:1	<1 minute	3-4 minutes	24-26	22-24	††	††	Up to 5mm depending on bond geometry	120°C

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

LOCTITE HY 4060 GY Durable, 5-Minute Structural Repair Adhesive.



The go-to adhesive for general-purpose repair, offering both performance and durability. LOCTITE HY 4060 GY provides fast fixture, and excellent bond strength, regardless of temperature and moisture conditions. LOCTITE HY 4060 GY is an ideal replacement for traditional two-part, 5-minute epoxies.

Your Benefits:

- Fast fixture time even at low temperatures – reduces maintenance costs
- High gap filling capability – excellent for universal repairs
- Excellent bond strength on many materials such as metal, plastics, rubber, wood, paper, leather – opens repair possibilities
- Machinable on metals – reduces replacement costs
- Very good chemical and solvent resistance – increase repair reliability
- Colour indication to ensure consistent, proper mix

Product	Pack	Colour/ Viscosity	Mix Ratio	Fixture Time (GBMS)	Working Time	Lap Shear Strength ¹ (N/mm ²)				Gap Fill	Temperature Resistance
						Steel (Grit Blasted)	Aluminum (etched)	Polycarbonate	Nitrile		
LOCTITE HY 4060 GY	25g	Grey (mixed) Gel	1:1	4-6 minutes	3-5 minutes	16-18	11-14	5-7	††	Up to 5mm depending on bond geometry	-40°C to 150°C

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