

Permabond®

Automotive Adhesive Solutions

ISO 9001 Certified
"Our Science ... Your Success"

Permabond has an extensive range of adhesive products suitable for engine compartment applications – such as formed-in-place gaskets, adhesive for core plug sealing, automotive hose bonding, heat exchanger sealing and filter end cap bonding. Electronic systems within the car also make use of many adhesives – such as potting and sealing electrical components, sensors, switches and relays, bonding electric motors, and a whole host of other applications.

Ideal for bonding:

ABS

Acrylic

Aluminium

Carbon Fibre

Composite

EPDM

Ferrite

FRP & GRP

Glass

Laminate

Leather

Nylon

Phenolic

Polycarbonate

Polyethylene*

Polypropylene*

Polystyrene

PVC

Rubber

Steel

Titanium

Zinc

Permabond® Adhesive Features & Benefits

- Many Permabond grades are already listed on the IMDS materials database
- Permabond offers a wide range of technologies available to suit application requirements
- Adhesives are available with resistance to harsh environments, elevated temperatures and aggressive chemicals
- Permabond adhesives are solvent-free and developed to minimise workplace hazard
- Adhesives offer a lightweight and reliable alternative to welding. They also allow greater freedom of use of dissimilar materials and offer better stress distribution
- Bonded joints help keep assemblies lightweight and rattle-free as well as more aesthetically pleasing than mechanical fasteners
- High peel strength, elongation, and flexibility properties offer excellent impact and vibration resistance as well as reduced chance of thermal shock cracking
- Wide scope of applications covered - structural, cosmetic, auto interiors, maintenance, re-conditioning and remanufacture, electronics, electronic components, wiring applications, engine compartment, auto exterior, and chassis.



chemical-concepts.com

800.220.1966

410 Pike Road • Huntingdon Valley, PA 19006

+Many more materials

**Specific grades only*

Permabond®
Engineering Adhesives

Permabond Adhesives for Automotive

Here is a small selection of our most popular adhesive grades suitable for use in a range of automotive applications. If you can't see exactly what you require, please contact our technical advisors with information about your application and your particular requirements and we will make a recommendation. The Permabond team provides support through the design phase, sample trials and production line integration. Whether you require technical support, custom formulations, or small batch production, please contact us.

Product Data

Typical Application	Features	Cure Method	Viscosity (mPa.s) cP	Gap Fill (mm) in	Shear Strength (MPa) psi (steel)	Temperature Range (°C) °F	Availability
Threadlocking and sealing hydraulics	Permabond A1042 Anaerobic threadlocker - prevents vibration loosening, corrosion, leakage	Anaerobic cure	2rpm: 8,000 20rpm: 1,700	(0.12) 0.005	(12) 1,700	(-55 to +150) -65 to +300	Europe, Middle East, Australia
	Permabond MM115 Anaerobic threadlocker - prevents vibration loosening, corrosion, leakage		1,300 Thixo	(0.15) 0.006	(10) 1,450	(-55 to +150) -65 to +300	Americas & Asia
	Permabond LM012 Hydraulics grade - no fillers Anaerobic threadlocker		2,000	(0.2) 0.008	(5) 750	(-55 to +177) -65 to +350	Americas & Asia
Bonding gears to shafts, bearings into housings	Permabond HM162 Low viscosity, high strength retaining adhesive	Anaerobic cure	1,000	(0.2) 0.008	(30) 4,300	(-55 to +200) -65 to +390	Worldwide
Gasketing and flange sealing	Permabond MH196 High viscosity anaerobic sealant for making formed-in-place gaskets and for sealing flanges and bolt holes	Anaerobic cure	2rpm: 500,000 20rpm: 100,000	(0.5) 0.02	(10) 1,450	(-55 to +200) -65 to +390	Worldwide
Sealing wiring harnesses. Can also be used for sealing weld porosities	Permabond A126 Wicking grade sealant. Can be applied post-assembly.	Anaerobic cure	10-30	(0.05) 0.001	(10-20) 1,450-2,900	(-55 to +150) -65 to +300	Europe, Middle East, Australia
	Permabond HL126 Wicking grade sealant. Can be applied post-assembly.		10-30	(0.05) 0.001	(10-20) 1,450-2,900	(-55 to +150) -65 to +300	Americas & Asia
Bonding gears to shafts, bearings into housings. Brake cables into pads in conjunction with A905 or ASC10	Permabond A1046 Toughened, rapid curing high strength retaining adhesive	Anaerobic cure	2rpm: 9,000 20rpm: 2,500	(0.25) 0.01	(25) 3,600	(-55 to +150) -65 to +300	Europe, Middle East, Australia
	Permabond HH040 Rapid curing high strength retaining adhesive		5,000	(0.25) 0.01	(14) 2,000	(-55 to +150) -65 to +300	Americas & Asia
Ideal for use with Permabond anaerobics on inactive surfaces	Permabond A905 Surface activator						Europe, Middle East, Australia
	Permabond ASC10 Surface activator						Americas & Asia
Bonding interior trim, luggage covers	Permabond 792 Instant bonding cyanoacrylate for hard-to-bond materials	Moisture cure	60-125	(0.15) 0.006	(18-22) 2,600-3,200	(-55 to +120) -65 to +250	Worldwide
Automotive weather seal or vehicle hoses	Permabond 737 Rubber toughened cyanoacrylate	Moisture cure	2,000-4,000	(0.5) 0.02	(19-23) 2,800-3,300	(-55 to +120) -65 to +250	Worldwide
Carbon fibre bodywork and chassis	Permabond PT326 Composite bonding polyurethane	2-part mix	3,500-7,000	(5.0) 0.2	(12-20) 1,700-2,900	(-40 to +120) -40 to +250	Worldwide

For full, up-to-date technical information, please refer to the TDS (Technical Data Sheet).

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The information given and the recommendations made herein are based on our experience and are believed to be accurate. No guarantee as to, or responsibility for, their accuracy can be given or accepted, however, and no statement herein is to be treated as a representation or warranty. In every case we urge and recommend that purchasers, before using any product, make their own tests to determine, to their own satisfaction, its suitability for their particular purposes under their own operating conditions. Always refer to current product technical datasheet for most recent and accurate technical information.