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.

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.*

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

+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		*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).

www.permabond.com

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Distributor Stamp