Permabond®
Engineering Adhesives

AUTOMOTIVE ADHESIVE SOLUTIONS

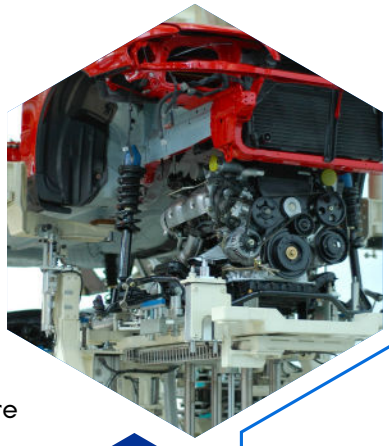


Permabond has an extensive range of adhesive products suitable for engine compartment applications – such as formed-in-place gaskets, adhesive for core plug sealing, automotive hose bonding, heat exchanger sealing and filter end cap bonding.

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.

KEY FEATURES:

- 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
- Aluminum
- Carbon Fiber
- Composite
- EPDM
- FRP/GRP
- Ferrite
- Glass
- Laminate
- Leather
- Nylon
- Phenolic
- Polycarbonate
- Polypropylene*
- Polyethylene*
- Polystyrene
- PVC
- Rubber
- Steel
- Titanium Zinc

...and many more!

*Specific grades only

AUTOMOTIVE ADHESIVE SOLUTIONS

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: 8000 20rpm: 1700	(0.12) 0.005	(12) 1700	(-55 to +150) -65 to +300	*Europe, Middle East, Australia*
	Permabond MM115 Anaerobic threadlocker - prevents vibration loosening, corrosion, leakage		1300 Thixo	(0.15) 0.006	(10) 1450	(-55 to +150) -65 to +300	*Americas & Asia*
	Permabond LM012 Hydraulics grade - no fillers Anaerobic threadlocker		2000	(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	1000	(0.2) 0.008	(30) 4300	(-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) 1450	(-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	(0.005) 0.001	(10-20) 1450-2900	(-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: 9000 20rpm: 2500	(0.25) 0.01	(25) 3600	(-55 to +150) -65 to +300	*Europe, Middle East, Australia*
	Permabond HH040 Rapid curing high strength retaining adhesive		5000	(0.25) 0.01	(14) 2000		*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) 2600-3200	(-55 to +120) *-65 to +250*	*Worldwide*
Automotive weather seal or vehicle hoses	**Permabond 712** Rubber toughened cyanoacrylate	Moisture cure	100	(0.15) 0.006	(19-24) 2755-3489	(-55 to +120) *-65 to +250*	*Worldwide*
	Permabond 737 Rubber toughened cyanoacrylate		2000-4000	(0.5) 0.02	(19-23) 2800-3300		
Carbon fibre bodywork and chassis	**Permabond PT326** Composite bonding polyurethane	2-part mix	3500-7000	(5.0) 0.2	(12-20) 1700-2900	(-40 to +120) *-40 to +250*	*Worldwide*

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

PERMABOND.COM

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