



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.



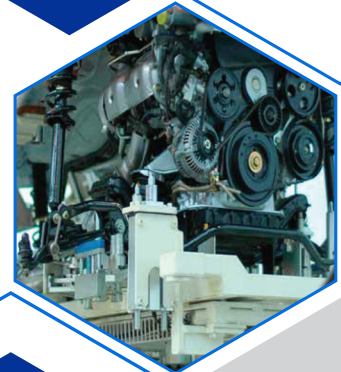
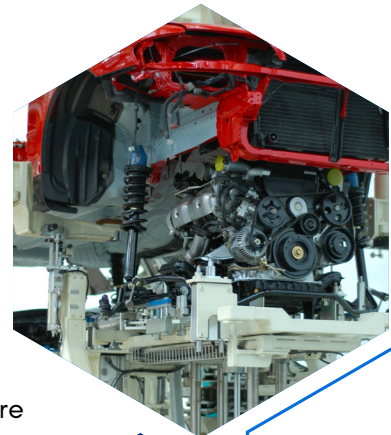
KEY FEATURES:

- ▶ 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

*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).

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