

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.



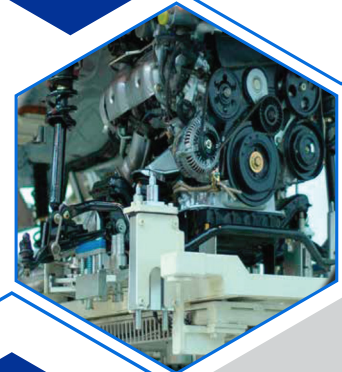
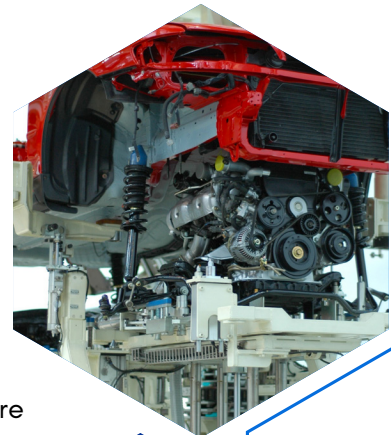
KEY FEATURES:

- ▶ 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).

Authorized distributor stamp:

tewipack
klebetechnik

tewipack Uhl GmbH
Industriestraße 15
D-75382 Althengstett
www.tewipack.de

info@tewipack.de
T +49 (7051) 9297 0
shop.tewipack.de

KLEBEN VERBINDET |    

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.