Permabond®
Engineering Adhesives

ADHESIVES & SEALANTS FOR SPECIALTY VEHICLES



Permabond manufactures adhesives and sealants used on virtually anything that moves!

Whether your putsing in a golf cart or kicking up dust on a dirt bike, it's likely Permabond had a hand in manufacturing your ride. Permabonds diverse line of products provide solutions for bonding and sealing substrates found on the exterior of vehicles, under the hood, and in the interoir.

Permabond® Adhesives are used on the exterior, under the hood and the interior. Typical applications include:

▶ Exterior

-Panel bonding - Various products with no read through
-Mirror bonding

▶ Gearbox & Transmission

-FIP Gaskets for cover - no bedding in, one adhesive can make any shaped gasket
-High strength adhesives for bonding gears to shaft
-Threadlockers - to prevent vibration loosening
-Bearing fit adhesives

▶ Drive Shaft & Axles

-Driveshaft and axle bonding with high strength toughened adhesives.
-Bonding bearing into housings and yokes
-Threadlocking bolts
-Sealing hubs
-Retaining shafts and spline

▶ Interior

-Air vents
-Book shleving in bookmobiles
-Blinds in mobile medical centers
-Cable containment clips in mobile command centers
-Emergency floor lighitng
-Floor panels and treads Bus Blinds
-Handrails





IDEAL FOR:

ATVS, Ambulances, Boats, Caravans, Dirt Bikes, Farm Equipment, Fire Trucks, Golf Carts, Jet Skis, Military Vehicles, Mopeds, Motorcycles, RVs, Scooters, Snow Machines, Tractors, Trains, Utility Vehicles

TRANSPORT INDUSTRY ADHESIVES AND SEALANTS

Example Application	Product	Features	Cure Method	Viscosity (mPa.s) cP	Gap Fill (mm) in	Handling Time	Max. Shear Strength Steel (MPa) psi
Exterior panels / skins Interior composite panelling	TA4210*	Toughened, gap filling, low shrinkage, 1:1 mix ratio, easy to apply	2-part pre-mix acrylic (cartridge and mixing nozzle system) room temperature cure	45,000	(4.0) 0.16	20-25 minutes	(25) 3600
	TA4810**			50,000	(2.0) 0.08	10-15 minutes	(28) 4000
	MS359 Series	Very flexible, low shrinkage and low read through, available in Non-sag and Self-levelling grades	1-part MS polymer, moisture cure at 4mm/24 hour	Various	(5.0) 0.2	15 min skin over time	3 (430)
	MT3821	Soft flexible, 2:1 mixable faster cure than MS359, non-slump	2-part modified epoxy	Thixotropic Paste	(5.0) 0.2	60 - 90 minutes	7 (1000)
	PT328	Resilient, non-slump	2-part urethane	5000	(5.0) 0.2	60 - 90 minutes	20 (2900)
Gasketing - engine and gearbox	MH196	High temperature resistant, can form gaskets in all shapes and sizes	Single part anaerobic, cures at room temperature in the presence of metal and in the exclusion of oxygen	2rpm: 500,000 20rpm: 100,000	(0.5) 0.02	15 minutes (on steel)	(10) 1450
Fixing bearings, shafts & splines	HM162	High strength, high temperature resistance, rapid cure	Single part anaerobic, cures at room temperature in the presence of metal and in the exclusion of oxygen	1000	(0.2) 0.008	5 minutes (on steel)	(30) 4300
Sealing pipework, heating etc	MH052	Suitable for sealing against fuel, autogas, water, oxygen	Single part anaerobic, cures at room temperature in the presence of metal and in the exclusion of oxygen	2rpm: 65,000 20rpm: 25,000	(0.5) 0.02	15 minutes (on steel)	(10) 1450
Heat exchanger sealing	ES558	Wicking to penetrate around tubes and fins, metallic appearance	Single part heat cure epoxy	200,000 -Flows like solder when heated	(0.5) 0.02	NA Cure 1 hour 150°C/300°F	(41) 6000
Bonding seat trays, side (wing) mirrors	ET515	Toughened, flexible, rapid curing, clear epoxy with high peel strength	2-part pre-mix epoxy (cartridge and mixing nozzle system), room temperature cure	17,000	(2.0) 0.08	20-30 minutes	(12) 1740
Bonding interior trim, blinds, fascia	2011	Non-drip, rapid curing, high strength surface insensitive gel	No mix, moisture cure Wcyanoacrylate	Gel	(0.5) 0.02	5-10 seconds (on plastic)	(24) 3500
Bonding interior handrails	HM165	High performance, high strength, rapid curing	Single part anaerobic, cures at room temperature in the presence of metal and in the exclusion of oxygen	2rpm: 25,000 20rpm: 10,000	(0.3) 0.012	15-20 minutes (on steel)	(26) 3800

If you can't see the exact product you are looking for, or need more in depth technical information, Permabond's technical team would be more than happy to help.

*Available Europe, Middle East, and Australia
**Available in The Americas and Asia

PERMABOND.COM

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