Permabond®
Filter Bonding Adhesive Solutions

ISO 9001:2008 Certified
"Our Science ... Your Success"

Permabond's line of adhesives and sealants offers the performance characteristics needed to bond all the different substrates used in filter manufacturing. First class technical support and the ability to custom formulate make Permabond the right choice.

Permabond® Adhesive and Sealant Features & Benefits

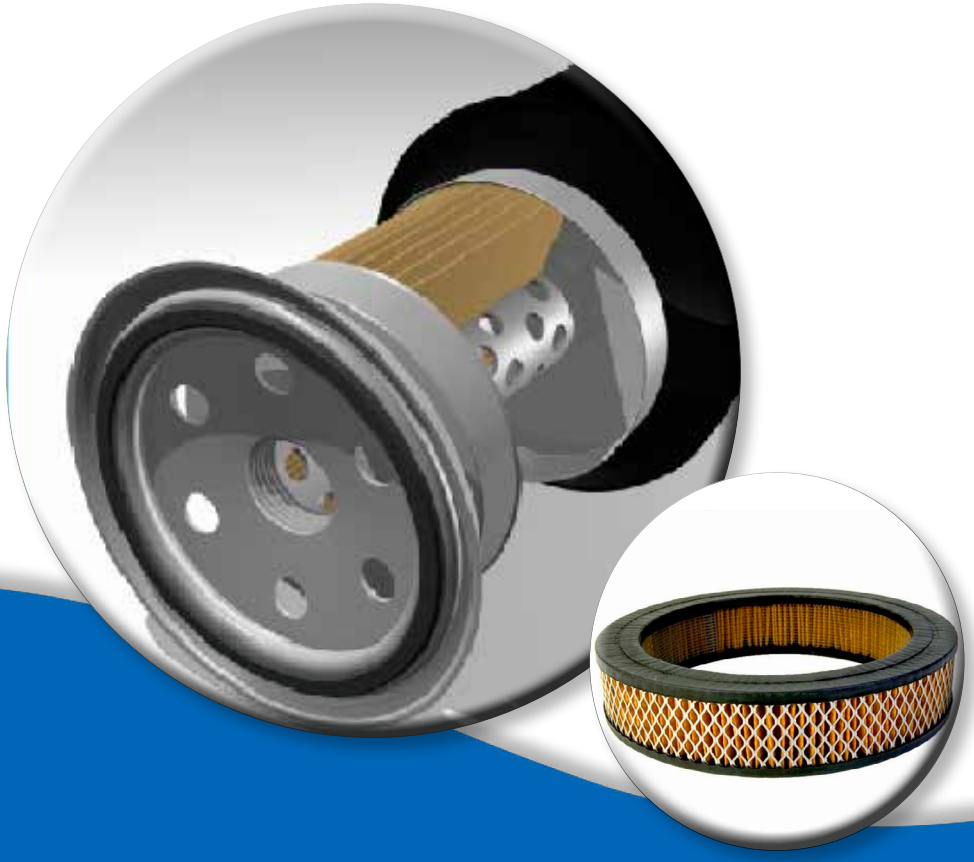
Benefits of Permabond anaerobic sealants, the preferred choice for seam sealing.

- Reduced reject rates
- More environmentally friendly
- Non-flammable - no hazardous shipping costs
- 100% solids - no waste
- Application process can be easily automated
- Fluoresce under black light for QC inspection
- Excellent resistance to water, oil, fuel and other chemicals

Permabond adhesives for end cap bonding, mesh plate bonding and pleated filter bonding.

- Single part epoxies are a cost effective alternative to welding metal filter components. The added benefit of a complete seal is a result of potting components for assembly.
- Two component epoxies which are low viscosity are ideal for potting pleated filter media and have excellent resistance to water, fuel, etc. The low exotherm temperature makes them suitable for bulk volume potting applications.
- MS Polymers form extremely flexible bonds which provide excellent sealing properties.
- Polyurethanes, Cyanoacrylates, and Structural acrylics offer unique properties as well.

Some of these products are highlighted in the tables that follow. If you do not see the product you require, contact Permabond for a recommendation or custom formulations for your unique application.



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 Filter Bonding Adhesives

Here is a small selection of our most popular adhesive grades suitable for use in a range of filter 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

Features	Typical Applications	Cure Method	Viscosity (mPa.s) cP	Gap fill (mm) in	Handling Time	Temp. range (°C) °F
Permabond ET536 2-part epoxy	Filter bonding	2-part | 1:1 ratio Room temp. cure	Thixotropic, Non-sag	(5.0) *0.2*	90-120 mins	(-40 to +80) *-40 to +180*
Permabond HH040 High viscosity anaerobic sealant. Fluoresces under UV black light for easy QC inspection. HH040 PURE is NSF/ANSI 61 Certified	Sealing rolled seams on filter edges	Room temp. Anaerobic cure	5,000	(0.25) *0.01*	15 mins	(-55 to +150) *-65 to +300*
Permabond ES550 Toughened heat cure epoxy, excellent chemical and temperature resistance	Bonding wire mesh into filter end caps	Single Component Heat cure (oven or induction)	Paste	(5.0) *0.2*	75 mins at 130°C/266°F 60 mins at 150°C/300°F (full strength)	(-40 to +180) *-40 to +350*
Permabond ES566 Low temperature curing, single part epoxy with excellent adhesion to nylon	Bonding filter media to end caps	Single component Heat cure (oven or induction)	Soft Paste	*(0.3)* *0.01*	60 mins at 80°C/176°F 15 mins at 120°C/248°F (full strength)	(-40 to +180) *-40 to +350*
Permabond TA437 Structural acrylic, excellent chemical and temperature resistance	Bonding nylon end caps to filters	Single component Room temp. cure Initiator 41 will speed cure	2.5rpm: 130,000 20rpm: 40,000	*(0.5)* *0.02*	15 20 minutes 1 - 3 minutes with Initiator 41	(-55 to +200) *-65 to +392*
Permabond 910 Rapid curing methyl cyanoacrylate	Rubber gasket bonding onto filters	Moisture	80	(0.15) *0.006*	10-15 seconds	(-55 to +90) *-65 to +200*
Permabond MS359 Grey Single component MS Polymer Grey	Media bonding	Moisture	Paste	(5.0) *0.2*	8-24 hours	(-54 to +90) *-65 to +200*
Permabond PT328 Two component polyurethane	Frame and media bonding	Moisture	Soft Paste	*(5.0)* *0.2*	1.5 to 2 hours	(-40 to +120) *-40 to +250*

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

Permabond Filter Bonding Adhesives

The table below lists Permabond adhesives and sealants that are commonly used for the listed application. Depending on your application requirements a different Permabond solution may be more suitable to your needs.
Please contact Permabond.
Permabond's technical team would be more than happy to help with your adhesive selection.

Application	Filter Type						
	Bag	Engine - Air Intake	Engine- Fuel	Engine - Oil	HEPA	HVAC	Hydraulic Oil
End Cap Bonding		MS359	TA437 / ES566			MS359	ES566
Frame Bonding	PT328	MS359				MS359	
Gasket Bonding		910		910		MS359	
Media Bonding					PT328	PT328	
Plate Bonding		MS359		ET536 / ES566		MS359	
Rolled Seam Sealing			HH040	HH040			HH040
Side Seam Sealing		910					
Strap Bonding	MS359						

Contact Permabond

www.permabond.com

- ***US Helpline - 800-640-7599***
- ***UK - 0800 975 9800***
- ***Asia + 86 21 5773 4913***
- ***General Enquiries +44(0)1962 711661***
- ***Deutschland 0800 101 3177***
- ***France 0805 111 388***

info.europe@permabond.com
info.americas@permabond.com
info.asia@permabond.com

Distributor Stamp