Permabond®
Munitions Adhesives and Sealants

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

Permabond is a world leader in adhesive and sealant technologies, and a registered Nato Contractor.

Permabond offers a range of products for the munitions manufacturing industry. We have a wealth of experience in providing custom formulations to suit specific munitions customer requirements.

Permabond® Adhesive Features & Benefits

Benefits of Permabond anaerobic sealants:

- Better joint coverage for improved sealing consistency
- Low viscosity for easy application after the bullet has been inserted
- UV fluorescent for inspection identification
- Reduced trajectory deflection

Benefits of Permabond dual cure anaerobic-UV sealants:

- Instant seal
- Easy to dispense, low viscosity for penetration between bullet and casing
- Cures anaerobically between bullet and casing
- Meniscus or 'fillet' can be cured with UV light - this gives additional durability and extra protection against moisture
- Fluoresces under UV black light for inspection purposes

Permabond Engineering Adhesives

Permabond Munitions Adhesives & Sealants

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.

Features	Typical Applications	Cure method	Viscosity (mPa.s) cP	Handling time (copper)	UV fluorescence
Permabond A1024 Low viscosity wicking anaerobic sealant	Sealing between bullet and casing	Anaerobic cure	10-20	<20 minutes	*Yes*
Permabond A1062 Dual cure bullet sealant. Secondary UV cure allows the curing of the excess meniscus around the top of the casing providing improved durability and a visible seal.	Sealing between bullet and casing	Anaerobic / UV cure	10-20	<20 minutes	*Yes*
Permabond UV7141 Dual cure crimp sealant for blank ammunition. Excellent flow control.	Sealing the crimps on blank ammunition	Anaerobic / UV cure	1,000 - 1,700	<60 mins (anaerobic cure) <20 seconds (UV cure)	*Yes*

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. Permabond offers free custom development of sealants to suit your precise munitions project requirements. Please contact us to discuss.

Benefits of Permabond over lacquer...

- Solvent free - no emissions or waste, non-flammable, 100% reactive
- Single component - no mixing or pot-life
- Viscosity can be matched to application
- No creep, shrinkage, or cracking
- Excellent protection against moisture ingress

Benefits of Permabond over bitumen-based sealants

- No heat-cure required
- No drying out or cracking
- Low viscosity for easy in-line dispensing
- Rapid cure
- Built in UV fluorescence enables easy inspection

Contact Permabond

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