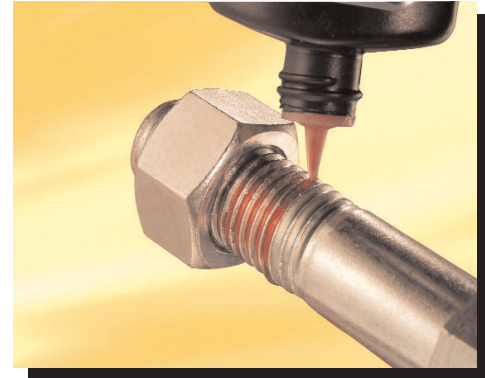


Permabond A1062

A1062 Anaerobic / UV Curing Adhesive

Permabond A1062 is a single component anaerobic adhesive. It cures in a closely fitting joints in the presence of metal and exclusion of oxygen. It has a secondary cure feature which allows the adhesive fillet on the outside of the joint to be cured via UV irradiation - helping obtain a better seal and improve environmental durability. Its low viscosity also makes this adhesive ideal for post-assembly application.



A1062 is able to be cured with a UV lamp

- Single part room temperature curing
- Easy to use
- Solvent free
- Excellent durability
- Dual-cure

Summary:
Penetrative Viscosity
Permanent

PHYSICAL PROPERTIES

| | |
|-------------------------|-----------------|
| Colour | Green |
| Viscosity @25°C | 20 mPa.s |
| Maximum Gap Fill | 0.05 mm |
| Density | 1.07 |

TYPICAL PROPERTIES

| | |
|--------------------------|----------------------------------|
| Handling Time | 10-25 minutes |
| Working Strength | 1 hour |
| Full Strength | 24 hours |
| Shear Strength | 7 MPa |
| Temperature Range | -55 to +150°C |
| UV Detection | Fluoresces under UV light |

Cure times are typical for steel at 23°C (73°F). Copper and its alloys will be faster while oxidised or passivated surfaces like stainless steel will be slower. Temperature will also effect the cure - for every 8°C (15°F) rise in temperature you halve the times given; for every 8°C (15°F) drop in temperature, the stated cure time doubles.

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TEMPERATURE RESISTANCE

Thermal resistance is excellent between -55 and 150°C. Heating causes the adhesive to soften but strength is regained on cooling provided 150°C is not exceeded for prolonged periods.

A1062 is resistant to a variety of chemicals such as water, oils, fuels and refrigerants, although very aggressive environments such as strong acids, alkalis and very polar solvents should be avoided.

A1062 should not be used in pure oxygen systems.

Storage and Handling

When stored in the original unopened containers at 5-25°C, the shelf life of this product is six months from the date of despatch from Permabond.

Please also read the Material Safety Data Sheet. Users are reminded that all materials, whether innocuous or not, should be handled according to the principles of good industrial hygiene.

Directions for use:

- ▶ Surfaces should be clean, dry and grease free prior to bonding. Abrading and degreasing the surface will give a much stronger bond. (MEK or similar solvent can be used to degrease surfaces.)
- ▶ If bonding unreactive metals such as aluminium, titanium or zinc, we would recommend using Permabond A905 surface conditioner.
- ▶ Apply adhesive to the leading edge of both male and female components and assemble parts.
- ▶ Allow the adhesive to cure before exposing to chemicals / pressure etc. (See cure speed section.)

Other Products in the Permabond Range...

Cyanoacrylate adhesives...

General purpose
Low bloom / Low odour
High temperature resistance
Metal bonding
Flexible
Toughened



We also have a new polyolefin primer for pre-treating polypropylene, polyethylene, PTFE. For use with cyanoacrylate adhesive.



Anaerobic adhesives...

Threadlocking
Pipe-sealing
Retaining
High temperature resistance
Toughened
Variety of viscosities and strengths available

If you require help with an application, please contact the Permabond team for technical advice on surface preparation, joint design, adhesive selection and how to optimise your production process.

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.

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