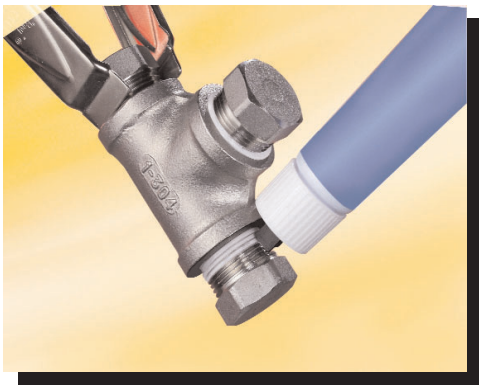
A131 Anaerobic Pipe Sealant

Permabond A131

Permabond A131 is an anaerobic adhesive designed to seal threaded metal pipe connections carrying a wide variety of gases and liquids, including potable water. Suitable for use on both parallel and tapered threads, the delayed cure allows accurate alignment of components. Capable of giving an instant pressure seal, and not drying out like many mastics, re-work can effectively be eliminated. Should disassembly be necessary, this can be accomplished using normal tools.



A131 is ideal for pipe sealing or where parts may need future dismantling

- Single part room temperature curing
- Easy to use
- Solvent free
- Able to be dismantled
- Water Byelaws Scheme approved

Summary:
High Viscosity
Low Strength
Pipe Sealant

PHYSICAL PROPERTIES

Colour	**White**
Viscosity @25°C	**40,000 mPa.s Thixotropic**
Maximum Gap Fill	**0.5 mm**
Density	**1.07**

TYPICAL PROPERTIES

Handling Time	**30-60 minutes**
Working Strength	**2 hours**
Full Strength	**24 hours**
Shear Strength	**6 MPa**
Torque Strength (M8 nuts & Bolts)	**8 Nm**
Temperature Range	**-55 to +150°C**

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.

Permabond®
Engineering Adhesives

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.
A131 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.
A131 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 two years 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

Permabond A131

Permabond®
Engineering Adhesives