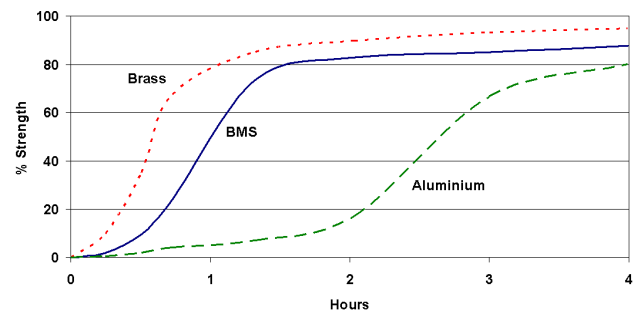


## Major Features

- \* Easy to apply
- \* Thixotropic
- \* Room temperature cure
- \* Very high strength
- \* Excellent chemical resistance

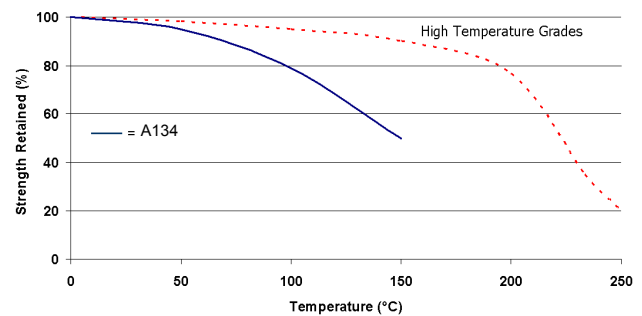
Permabond A134 is a high-strength anaerobic product designed for the permanent locking and sealing of metal parts. Its 'non-drip' formulation makes it suitable for use on larger fittings, coarse threads or for the renovation of assemblies where wide tolerances are expected due to damage or wear. A134 can extend the life of components by reducing the effects of corrosion in aggressive environments.

## Strength Development



Cure times are typical at 23°C. Copper and its alloys will follow the faster cure while oxidised or passivated surfaces like stainless steel will tend towards the slower curve. Lower temperatures or large gaps will tend to extend the cure time. To reduce the cure time the use of Permabond A905, or heat, can be considered.

## Hot Strength



The reduction in strength shown here is reversed on cooling providing the joint is not overstressed. Exposure to higher temperatures may be acceptable for short periods

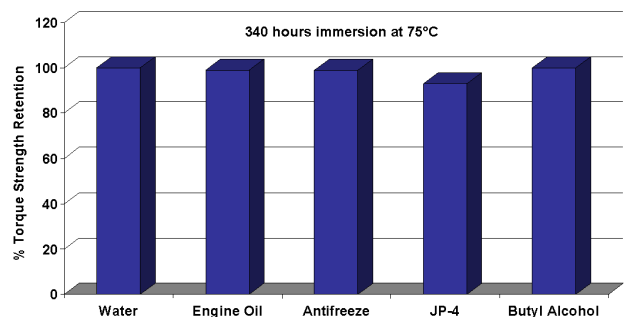
## Physical Properties

<b>Chemical Type</b>	<b>Acrylic Single Part</b>
<b>Colour</b>	<b>Green</b>
<b>Viscosity @ 25°C mPa.s</b>	<b>70,000 Thixotropic</b>
<b>Density</b>	<b>1.06</b>
<b>UV Fluorescent</b>	<b>Yes</b>

## Performance

<b>Maximum Gap Fill</b>		<b>0.5 mm</b>
<b>Max. Thread Size</b>		<b>M80 3"</b>
<b>Handling strength</b>	Steel	<b>10-25 minutes</b>
<b>Working strength</b>		<b>1 hour</b>
<b>Full strength</b>		<b>24 hours</b>
<b>Torque strength (Break / Preval)</b>	M10 Steel ISO10964	<b>33 / 58 Nm</b>
<b>Shear strength</b>	Steel Collar and Pin	<b>21 MPa</b>
<b>Service Temp.</b>		<b>-55 to +150°C</b>

## Chemical Resistance



This product is not recommended for use in joints which will be in contact with either steam or pure oxygen. Avoid prolonged contact with strong acids, alkalis and very polar solvents

**WRAS approved for contact with potable water**

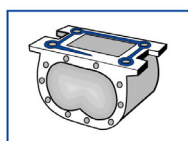
## Surface Preparation

Though the anaerobic adhesives will tolerate a slight degree of surface contamination best results are obtained on clean, dry and grease free surfaces. The use of Permabond Cleaner A is recommended.

In general roughened surfaces (~25µm) give higher bond strengths than polished or ground surfaces.

To reduce the curing time, especially on inactive surfaces such as zinc, aluminium and stainless steel, the use of Permabond A905 can be considered.

## Adhesive Application



### Gasketing

Apply as a bead, by roller, silkscreen or stencil. Ensure all potential leak paths such as flange bolt holes are encircled.

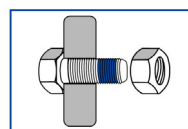
Removal: use normal tools to prise the surfaces apart. Ensure old adhesive is removed before reassembling the parts.

### Retaining

Apply a circumferential bead; preferentially to the female component. Assemble with a twisting action.



For larger components use thixotropic products to prevent run off. Take care to ensure adhesive does not enter ball races or other mechanisms.



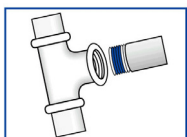
### Thread Locking

Apply sufficient adhesive to the bolt to ensure adequate coverage. For coarse threads use thixotropic grades.

For blind holes adhesive should be applied to the lower end of the female thread to ensure it is not forced out of the joint during assembly.

### Thread Sealing

Apply a continuous bead circumferentially 1-2 threads from the leading edge. Ensure sufficient is applied to give a complete seal.



For taper/parallel threads ensure adhesive is positioned where the threads will engage fully. Gaps, and therefore cure times, may be greater than expected with this joint configuration.

Tighten with normal tools.

## Storage and Handling

### Storage Temperature

5 to 25°C

Users are reminded that all materials, whether innocuous or not, should be handled in accordance with the principles of good industrial hygiene. Full information can be obtained from the Material Safety Data Sheet.

### Other products in the Permabond range....

#### Anaerobics

- ✓ Toughened
- ✓ Gas & Water approved
- ✓ High temperature resistance

#### Cyanoacrylates

- ✓ Low bloom / low odour
- ✓ Flexible,
- ✓ High temperature resistance

#### Epoxies

- ✓ Fast cure
- ✓ Toughened
- ✓ Flexible grades

#### Toughened Acrylics

- ✓ Rapid cure
- ✓ Low odour

#### UV Light Cured

- ✓ Glass / plastic bonding
- ✓ Optically clear
- ✓ Non yellowing

### Contact Permabond:

**Europe:** Tel +44(0)1962 711 661  
 UK Helpline: 0800 975 9800  
 Deutschland: 0800 101 3177  
 France: 0805 11 13 88  
[info.europe@permabond.com](mailto:info.europe@permabond.com)

**US:** Tel 00 1 732-868-1372  
 Helpline 800-640-7599  
[info.americas@permabond.com](mailto:info.americas@permabond.com)

**Asia:** Tel 00 886 939 49 3310  
[info.asia@permabond.com](mailto:info.asia@permabond.com)

[www.permabond.com](http://www.permabond.com)

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.