

Permabond 101 (previously Permabond C1) was developed primarily for the bonding of rubber material to enable the manufacture of 'O' rings, gaskets etc. where a rapid cure is required and bond areas are generally small. With a viscosity similar to water, it can also be applied after assembly of the components where parts need to be accurately aligned and/or adjusted prior to bonding.

### Physical Properties

<b>Chemical Type</b>	Ethyl cyanoacrylate
<b>Colour</b>	Colourless
<b>Viscosity</b>	2 mPa.s
<b>Density</b>	1.05

### Typical Performance

<b>Gap Fill</b>		0.025mm
<b>Handling Time</b> <sup>†</sup>	Rubber	7 seconds
	Plastic	12 seconds
	Metal	40 seconds
<b>Full Strength</b>		24 hours
<b>Tensile Strength</b>	ASTM D-2095	20 MPa (steel)
<b>Service Temperature</b> *		-30 to +85°C

<sup>†</sup>Handling times can be affected by temperature, humidity and specific surfaces being bonded. Larger gaps or acidic surfaces will also reduce cure speed but this can be overcome by the use of Permabond C Surface Activator (CSA).

\*Higher temperatures may be endured for short periods, providing the parts are not unduly stressed.

### Surface Preparation

Surfaces should be clean, dry and grease-free before applying the adhesive. Permabond Cleaner A is recommended for the degreasing of most surfaces. Some metals such as aluminium, copper and its alloys will benefit from light abrasion with emery cloth (or similar), to remove the oxide layer.

### Adhesive Application

- Apply the adhesive sparingly to one surface (usually 1 drop is sufficient). Bring the components together quickly and correctly aligned.
- Apply sufficient pressure to ensure the adhesive spreads into a thin film.
- Do not disturb or re-align until curing is achieved, normally in a few seconds.
- Any surplus adhesive can be removed with Permabond Cleaner A.

**NB:**

- For difficult or porous surfaces Permabond CSA activator is recommended.
- If bonding polypropylene, polyethylene, PTFE or silicone, prime first with Permabond Polyolefin Primer.

### Storage and Handling

<b>Storage Temperature</b>	5 to 7°C
<b>Shelf Life</b> Stored in original unopened containers	12 months

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.

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