

**Permabond ET500**  
**Technical Information Sheet**

**2 PART, FAST SETTING, EPOXY ADHESIVE**

**Description**

Permabond ET500 will bond to a wide variety of surfaces such as wood, metal, and ceramics and including many plastic and composite materials. It cures rapidly to give a handling strength in approximately 5 minutes at room temperature.

**Physical properties**

	<b>ET500A</b>	<b>ET500B</b>
Chemical composition	Epoxy Resin	Amine Hardener
Appearance	Colourless	Colourless
Viscosity (25°C - mPa.s)	15,000	22,500
Density	1.2	1.0
Shelf life	12 months	12 months
Storage Temperature	5 to 25°C	5 to 25°C

**Cured Properties**

Mix Ratio	1:1 by volume
Gap Fill	Typically up to 2mm
Usable Life	3 minutes at 20°C
Handling Time	~5 minutes
Working Strength	20-30 minutes
Full Cure	24 hours
Shear Strength	14 MPa
Hardness	73 Shore D
Elongation at break	7%
Temperature Range	-40 to +80°C

**Handling and Safety**

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

**Directions for use**

Surfaces should be clean, dry and grease free before applying the adhesive and the use of **Permabond Cleaner A** is recommended.

Thoroughly mix the resin and hardener in the correct proportion, apply the adhesive to one surface, assemble the components and allow to cure.

Do not mix up more adhesive than can be applied within the usable life of the product.

Permabond ET500 will cure at temperatures as low as 0°C but care must be taken to ensure the surfaces are not coated with condensation.

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.