

### Features & Benefits

- 💧 Cure on demand
- 💧 Non-drip
- 💧 Flexible, good impact resistance
- 💧 Fast curing with low-power lamps
- 💧 100% solids, no solvents
- 💧 Excellent adhesion to metal and glass

### Description

**PERMABOND UV625** is a single part, fast curing, UV curable adhesive primarily designed for bonding and sealing glass and metal. The cured adhesive is tough, flexible and has excellent impact resistance. The gel-like viscosity and good depth of cure make it ideal for use on vertical surfaces or where large gaps are involved.

### Physical Properties of Uncured Adhesive

Chemical composition	Methacrylate ester
Appearance	Colourless gel
Viscosity @ 25°C	185,000 mPa.s (cP)
Density	1.1

### Typical Curing Properties

Fixture time (low power 4mW lamp)*	5 seconds
Maximum gap fill	2.5 mm <b>0.1 in</b>
Cure wavelength	365 - 400 nm

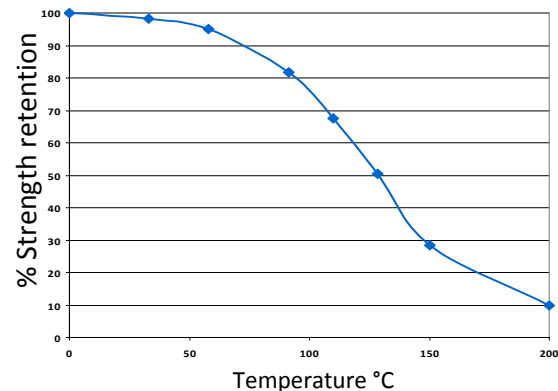
*\*The cure time depends on the power of the UV lamp, its spectral output, the distance between the lamp and the components, and the transmission characteristics of the substrates. The cure time quoted here was determined using a low power, hand held lamp. Most industrial UV lamps would give faster cure rate.*

### Typical Performance of Cured Adhesive

Shear strength glass/steel*	10 – 11 N/mm <sup>2</sup> ( <b>1400 psi – 1600 psi</b> )
Tensile strength ASTM D-2095	16.5 N/mm <sup>2</sup> ( <b>2400 psi</b> )
Refractive index	1.47
Elongation	60%
Shore D hardness	65
Dielectric strength	12 KV/mm
Dielectric constant 1MHz@25°C	4

*\*Strength results will vary depending on the level of surface preparation and gap.*

### Temperature Resistance



UV625 can withstand higher temperatures for brief periods (such as for paint baking and wave soldering processes) providing the joint is not unduly stressed. The minimum temperature the cured adhesive can be exposed to is -55°C (-67°F) depending on the materials being bonded.

### Additional Information

This product is not recommended for use in contact with strong oxidizing materials.

Information regarding the safe handling of this material may be obtained from the material safety data sheet (MSDS).

Users are reminded that all materials, whether innocuous or not, should be handled in accordance with the principles of good industrial hygiene.

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## Surface Preparation

Surfaces should be clean, dry and grease-free before applying the adhesive. Particular care should be taken to remove silicone based cleaning agents which may have been used previously to clean glass. Some metals such as aluminium, copper and its alloys, will benefit from light abrasion with emery cloth (or similar) to remove the oxide layer. Isopropanol can be used to degrease most surfaces. Where thermoplastic surfaces are involved we recommend tests are done to ensure compatibility, mold release agents may affect bond strength.

## Directions for Use

- 1) Adhesive can either be applied directly from the bottle or dispensed via automated dispensing equipment for more accurate dosing.
- 2) It is important to try to prevent air entrapment within the joint as this could be detrimental to the finished appearance of the adhesive.
- 3) Parts should be firmly held and not disturbed during cure. Expose the joint to ultra-violet light for the appropriate time to ensure full cure.
- 4) For help selecting a suitable lamp and/or dispensing equipment, please contact the Permabond technical helpline.

## Storage & Handling

Storage Temperature	5 to 25°C (41 to 77°F)
Shelf Life Stored in original unopened containers	12 months

## Other Products Available

### Anaerobics

Toughened  
Gas & water approved  
High temperature resistance  
Flexible

### Cyanoacrylates

Low bloom / low odour  
Flexible  
High temperature resistance

### Epoxies

Fast cure  
Toughened  
Flexible grades

### Toughened Acrylics

Rapid cure  
Low odour  
Pre-mixed  
Gap filling

### UV Light Cured

Glass / plastic bonding  
Optically clear  
Non-yellowing

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