

Permabond C6 Cyanoacrylate Adhesive

Technical Information Sheet

**PERMA
BOND**

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[MSDS](#)[PRINT](#)[EXIT](#)

Description:

Permabond C6 is a very high purity cyanoacrylate adhesive which can be used to bond a wide range of materials that may be difficult to bond with general purpose 'superglues'. It is particularly suitable for bonding Natural rubber, Butyl rubber and EPDM. It can easily be applied direct from the bottle or via automated dispensing equipment where speed and/or precision is required.

Physical Properties

| | |
|---|------------------------|
| Colour | colourless |
| Viscosity (mPa.s) <small>* T = Thixotropic</small> | 40 |
| Specific Gravity | 1.05 |
| Tensile Strength (MPa) | 20 |
| Maximum Gap Fill (mm) | 0.1 |
| Chemical Type | Ethyl Cyanoacrylate |

Storage:

When stored in the original unopened containers between 5 and 7°C, the shelf life of this product is 6 months from the date of despatch from Permabond.

Product stored in a 'fridge' should be allowed to warm up to room temperature before opening to prevent condensation causing premature hardening of the adhesive.

Service Temperature:

The recommended service temperature range for this product is -30 to +85°C. However higher temperatures may be endured for short periods providing the adhesive is not unduly stressed.

Cure Speed

Handling Strength 6 - 50 secs.

Full Strength 24 hrs.

This is a typical cure speed to be expected on most rubber and plastic surfaces. The actual handling times can be affected by temperature, humidity and the specific surfaces being bonded. Larger gaps, or acidic surfaces, will also reduce the cure speed but this can be overcome by the use of **Permabond C Surface Conditioner (CSA)**.

Handling:

Cyanoacrylate adhesives will bond skin and eyes in seconds. Contact with skin and eyes should be avoided. Use in a well ventilated area. Full information can be obtained from the Material Safety Data Sheet (MSDS).

Directions for Use:

The surfaces to be bonded should be clean and free from oil or grease. The use of **Permabond Clean II** or other organic solvents such as Acetone or Methyl Ethyl Ketone (MEK) is recommended. Persistent contamination should be removed by abrasion prior to degreasing.

Apply the adhesive sparingly to **one** surface and bring the components together quickly whilst ensuring they are correctly aligned

Squeeze the parts together with sufficient pressure to ensure the adhesive spreads to cover the surfaces. Do not disturb or realign the joint until the adhesive has reached handling strength.

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.

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