

## Technical Data Sheet

# KB224

## Cyanoacrylate Instant Adhesive

### Description

KB224 is a high viscosity, general purpose ethyl cyanoacrylate instant adhesive, suitable for bonding a very wide range of materials including plastics, rubbers, ceramics and other common substrates.

KB224 has enhanced gap filling capacity and can be used on parts that do not fit together perfectly, for rough surfaces or when time is required to align parts before curing. The high viscosity formulation means that the adhesive does not wick into unwanted areas.

Cure times vary according to the materials being bonded, but most combinations are fast-fixing in 10-60 seconds.

The one component nature of Krylex KB224 lends itself to easy automation of dispensing on production lines.

### Applications

Typical applications for KB224 are: general bonding and repair, product assembly, mounting standoffs, edge guides and stiffeners to circuit boards, tamper proofing and industrial manufacturing.

Instant adhesives are also widely used in the electronics, automotive and white goods industries.

### Technical Features

Resin:	Ethyl Cyanoacrylate
Appearance:	Clear
State:	Liquid
Cure Speed with Activator:	<5 seconds
Cure Speed w/o Activator:	10 - 60 seconds
Viscosity <sup>1</sup> :	2175 - 2750 cPs
Gap Fill:	0.20mm
Flash Point:	>85°C
Specific Gravity:	1.08
Max. Operating Temp:	-50°C to +80°C
Shelf Life @ 5°C:	12 Months

<sup>1</sup> Brookfield LVF, spindle 3, 30rpm

### Cured Performance

Full Cure Time: 24 Hrs @ 21°C

Tensile Shear Strength <sup>2</sup>: 20 N/mm<sup>2</sup>

<sup>2</sup> ISO 6922

After 2 minutes on steel: ~50% of final strength

### Fixture Times

Metal / Metal: <60 seconds

ABS / ABS: <40 seconds

Rubber / Rubber <30 seconds

Wood (Balsa) <10 seconds

### Factors Affecting Cure Speed

Cyanoacrylate adhesives cure when confined between close-fitting parts and in the presence of surface moisture on substrates.

Cure speed can be negatively influenced by very large gaps, low temperatures or low humidity environments.

Chemence recommends testing the suitability of Krylex products for any specific application.

### Use Of Accelerators/Primer

Krylex activators can be used to accelerate the curing speed or for priming absorbent surfaces. Activators may also be used for fillet cure and curing adhesive outside the bond line.

The use of an activator can reduce bond strength.

Krylex KP707 primer may be used for "difficult to bond" low surface energy plastic substrates.



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### Product Safety

Cyanoacrylate bonds skin and eyes in seconds.

If accidental skin bonding occurs, wash with warm soapy water and pry skin apart using a blunt instrument (such as a teaspoon handle).

In case of eye contact, bathe immediately with water and seek medical attention.

Skin contact through clothing may cause burns due to an exothermic reaction.

### Instructions for Use

Ensure parts are clean, dry and free from oil and grease.

Apply approximately one drop of adhesive to 25mm<sup>2</sup> of bond area. Krylex KB224 performs best with minimal gaps between substrates.

Hold parts together firmly until handling strength is achieved.

Product is normally hand applied from the bottle.

KB224 is suitable for use with dispensing systems for high volume assembly applications.

### Storage

Store in a cool area out of direct sunlight. Refrigeration to 5°C gives optimum stability.

### General Information

For safe handling of this product consult the Safety Data Sheet.

### Presentation

Bottles: .....20g, 50g & 500g

### Notes

The data contained in this data sheet may be reported as typical value and / or range. Values are based on actual test data and are verified on a regular basis.

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