

## Technical Data Sheet

# KB4714

## Cyanoacrylate Instant Adhesive

### Description

KB4714 is a medium viscosity, ethyl cyanoacrylate instant adhesive specially formulated to give superior bond performance on all types of plastic and rubber substrates, when bonding to themselves or to other materials.

KB4714 will also give high strength bonds on most other common substrates.

Cure times vary according to the materials being bonded, but most combinations are very fast-fixing in 5-15 seconds.

### Applications

Typical applications for KB4714 are: loud speaker parts, lampshades, centre consoles, dashboards and weather stripping, leather and rubber bonding during shoe manufacture and cord rubber "O" rings.

KB4714 is recommended for use on close-fitting parts and fairly smooth, even surfaces, KB4714 does however provide some moderate gap-filling capability.

Instant adhesives are also widely used in the electronics and white goods industry.

The one component nature of Krylex KB4714 lends itself to easy automation of dispensing on production lines.

### Technical Features

Resin:	Hybrid Ethyl Cyanoacrylate
Appearance:	Clear
State:	Liquid
Cure Speed with Activator:	<3 seconds
Cure Speed w/o Activator:	3 - 25 seconds
Viscosity <sup>1</sup> :	510 - 660 cPs
Gap Fill:	0.15mm
Flash Point:	>85°C
Specific Gravity:	1.07
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: <25 seconds

ABS / ABS: <10 seconds

Rubber / Rubber <5 seconds

Wood (Balsa) ~3 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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### Storage

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

### 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 KB4714 performs best with minimal gaps between substrates.

Hold parts together firmly until handling strength is achieved.

Product is normally hand applied from the bottle.

KB4714 is suitable for use with dispensing systems for high volume assembly applications.

### Presentation

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

### General Information

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

### 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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