

Technical Data Sheet

KB044

Cyanoacrylate Instant Adhesive

Description

KB044 is a general purpose, low viscosity, ethyl cyanoacrylate instant adhesive, designed to bond to a variety of materials including most plastics, rubbers, metals, and other common substrates.

KB044 instant adhesive is widely used in applications including white goods assembly, filter assembly, electronic housing assembly and general industrial manufacturing.

Cure times vary according to the materials being bonded, but most combinations are very fast-fixing in 3-30 seconds.

Applications

Typical applications for KB044 are high-performance bonding of: magnets, loud speaker parts, lampshades, watches and various optical products.

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:	<3 seconds
Cure Speed w/o Activator:	3 - 30 seconds
Viscosity ¹ :	80 - 120 cPs
Gap Fill:	0.15mm
Flash Point:	>85°C
Specific Gravity:	1.06
Max. Operating Temp:	-50°C to +80°C
Shelf Life @ 5°C:	12 Months

¹ Cone and Plate Rheometer, controlled stress

Cured Performance

Full Cure Time: 24 Hrs @ 21°C

Tensile Shear Strength ²: 21 N/mm²

² ISO 6922

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

Fixture Times

Metal / Metal: <30 seconds

ABS / ABS: <20 seconds

Rubber / Rubber <15 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.

The use of an activator can reduce bond strength.

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.

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 25mm² of bond area. Krylex KB044 performs best with minimal gaps between substrates.

Hold parts together firmly until handling strength is achieved.

Product is normally hand applied from the bottle.

KB044 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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