

Technical Data Sheet

KB014-LO

Low Odour Cyanoacrylate Instant Adhesive

Description

Krylex KB014-LO is a medium viscosity, flexible, odourless, non-irritating, multi-purpose instant adhesive.

KB014-LO is non-staining, showing almost no evidence of chlorosis (whitening) around the bond line.

KB014-LO is suitable for bonding a very wide range of common materials including polystyrene.

Technical Features

Cure System:	Moisture
Appearance:	Transparent / Clear
State:	Liquid
Chemical Type:	Methoxyethyl Cyanoacrylate
Viscosity ¹ :	125 - 220 cPs
Specific Gravity:	1.11
Gap Fill:	0.15mm
Open Time:	Up to 2 hrs ²
Max. Operating Temp:	-40 °C to +80 °C
Shelf Life @ 2 - 8 °C ³ :	12 Months

¹ Brookfield RVT, Spindle 3, speed 30 rpm @ 25 °C

² Depending on viscosity and substrate

³ Stored in original unopened containers out of direct sunlight

Cured Performance

Tensile Shear Strength ISO 4587 (N/mm²)

The shear strength will depend on the substrate. The table below shows the shear strength for different substrates using lap shears

Substrate	Strength after 24 hr @ 22 °C (N/mm ²)
Pine Wood	8 - 10*
Beech Wood	9 - 11*
ABS	10*
Aluminium A5754	3 - 9
Mild Steel	10 - 20

*Substrate failure

Fixture Times

Fixture time is the time at which an adhesive bond (250 mm²) is capable of supporting a 3 kg load for 10 seconds.

The fixture time will depend on the substrate.

The table below shows the fixture time for different substrates using lap shears.

Substrate	Fixture Time (s)
Pine Wood	30 - 60
Beech Wood	15 - 35
ABS	25 - 60
Aluminium A5754	90 - 120
Mild Steel	15 - 75

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.

Limitations

This product is not recommended for use in pure oxygen and / or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

Not recommended for use on Polypropylene, Teflon® or on polyolefin based plastics.

General Information

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

Cyanoacrylate bonds with skin and eyes in seconds. If accidental skin bonding occurs, wash with warm soapy water and peel skin apart using blunt object (i.e. pen). In case of eye contact, bathe immediately with water and seek immediate medical attention. Skin contact through clothing may cause burns due to an exothermic reaction.



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Instructions for Use

KB014-LO performs best with minimal gaps between substrates.

- 1) Ensure parts are clean, dry and free from oil and grease.
- 2) Apply adhesive to one of the surfaces. Do not use items like tissue or a brush to spread the adhesive.
- 3) Accurately locate the parts and assemble within a few seconds. The short fixture time leaves little opportunity for adjustment.
- 4) Hold or clamp parts together firmly until handling strength is achieved.

Product should be allowed to develop full strength before subjecting to any service loads (typically 24 to 72 hours after assembly, depending on bond gap, materials and ambient conditions).

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 area verified on a regular basis.

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