



## CYNO 40 Low Viscosity Cyanoacrylate Adhesive

### PRODUCT DESCRIPTION

Delta Cyno 40 Low Viscosity is a high performance, cyanoacrylate based, adhesive. This low viscosity product is designed to give ultra fast bonding to a wide range of industrial and product component substrates found in the O.E.M marketplace.

### AREA OF USE

A multitude of industrial and professional uses whenever a strong bond is required coupled with rapid attainment of full strength on substrates such as, rubber, ceramics, plastics, metals, O rings and Upvc. For best performance bond surfaces should be clean and free from dust, the use of Delta Cleaning Wipes is recommended.

### TECHNICAL DATA

#### UNCURED MATERIAL PROPERTIES

Adhesive Type:	Cyanoacrylate
Chemical Classification:	Ethyl-2-cyanoacrylate, monomer
Flashpoint:	>81°C
Specific Gavity @ 25°C:	1.05 g/cm <sup>3</sup>
Appearance:	Clear, colourless liquid
Components:	One part moisture cure system
Form:	Homogeneous ready to use
Viscosity@25°C: (Brookfield RV spindle 1 20rpm)	15 - 25 cP (mPa s)
Softening Point:	130°C
Full cure time:	24 hours

#### CURING PROPERTIES

Bond width:	The rate of cure will depend on the bond width. Larger bond width will lead to slower cure rates.
Gap fill:	0.10 mm
Full Cure:	The full curing process should be complete after 24 hours under standard conditions.

CYANOACRYLATE



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## TECHNICAL DATA cont...

Cure speeds: The rate of cure varies with levels of ambient relative humidity.

Typical speeds (time to achieve 0.1 N/mm<sup>2</sup> as determined by ISO 4587)

Balsa wood	1-2 seconds
Nitrile rubber	3-5 seconds
EPDM	3-5 seconds
Neoprene	3-5 seconds
Steel (degreased)	15-20 seconds
Polycarbonate	5-10 seconds

## CURED MATERIAL PROPERTIES

Hardness (Rockwell): M58  
Solubility: DMF, Acetone, Acetonitrile

Shear strength:  
ISO 4587

Steel (grit blasted)	>15 N/mm <sup>2</sup>
Aluminium (grit blasted)	>10 N/mm <sup>2</sup>
Polycarbonate	> 6 N/mm <sup>2</sup>
Nitrile Rubber	>10 N/mm <sup>2</sup>

Tensile Strength:  
ASTM D412 (B)

Steel (grit based)	>18 N/mm <sup>2</sup>
Nitrile Rubber	> 5 N/mm <sup>2</sup>
EPDM	> 5 N/mm <sup>2</sup>
Neoprene	>2.5N/mm <sup>2</sup>

## STORAGE AND SHELF LIFE

Ideal storage temperature: 10-20°C

Container: Store in original packaging

Shelf life: 12 months



# CYANOACRYLATE

## HEALTH AND SAFETY

Classification: Xi IRRITANT

Bonds skin and eyes in seconds. Keep out of reach of children. Refer to product Material Safety Data Sheet (MSDS)

## LEGAL NOTE

The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Delta Adhesives Ltd accepts no liability arising out of the use of this information or the products described herein.

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