

# CYNO 1200

## High Viscosity Cyanoacrylate Adhesive

### PRODUCT DESCRIPTION

Delta Cyno 1200 High Viscosity is a high performance, cyanoacrylate based, adhesive with unique gap filling properties. Although having this high build rheology, it also retains a high level of bond strength exhibited by all the Delta high technology adhesive range.

### AREA OF USE

A multitude of industrial and professional uses whenever a strong bond is required coupled with small gap filling properties. Use where vibration occurs on uneven surfaces, metals, plastics, ferrite magnets, rubber and ceramics. 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 Gravity @ 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)	1200-1800 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:	0.20 mm
Full Cure:	The full curing process should be complete after 24 hours under standard conditions.

## 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	<7 seconds
Nitrile rubber	<7 seconds
EPDM	<7 seconds
Neoprene	<7seconds
Steel (degreased)	15-20 seconds
Polycarbonate	10-30 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
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Shelf life:	12 months
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**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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