

## CYNO GEL

### Thixotropic Cyanoacrylate Adhesive

#### PRODUCT DESCRIPTION

Delta Cyno Gel is a high performance, cyanoacrylate based, gelled adhesive. This formulation provides a product that is easy to handle and allows use on vertical and inverted surfaces. The product has gap filling capabilities and will not sag or slump, however it still retains the high levels 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 gap filling and non sag or slump. Use on porous surfaces, vertical and overhead situations, fill large gaps, on metals, plastics, ceramics, upholstery repairs, leather, adhering signs and name plates. 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 gel
Components:	One part moisture cure system
Form:	Homogeneous ready to use
Viscosity@25°C: (Brookfield) RV spindle 1 20rpm)	80,000 - 120,000 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:	0.50 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	<5 seconds
Nitrile rubber	<5 seconds
EPDM	<7 seconds
Neoprene	<5seconds
Steel (degreased)	25-35seconds
Polycarbonate	10-25 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

**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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