



TECHNICAL DATA SHEET EDITION: 06/09/2021

PRODUCT CODE: CYNO 2000

CYNO 2000 Toughened Cyanoacrylate Adhesive

PRODUCT DESCRIPTION

Delta Cyno 2000 Tough Black is a high performance, cyanoacrylate based, rubber toughened adhesive. The unique formulation gives a cured adhesive film with enhanced properties such as increased flexibility and shock resistance. The product, although showing improved flexibility, 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 improved flexibility on substrates such as metals, plastics and rubbers. 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/cm³

Appearance: Black polymer liquid

Components: One part moisture cure system Form: Homogeneous ready to use

Viscosity@25°C:

(Brookfield

RV spindle 1 20rpm) 3000 - 4000 cP (mPa s)

Softening Point: 130°C Full cure time: 24 hours

CURING PROPERTIES

The rate of cure will depend on the bond width. Larger

bond width will lead to slower

cure rates.

Gap fill: 0.30 mm

Full Cure: The full curing process

should be complete after 24 hours under standard

conditions.





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Cure speeds: The rate of cure varies with

levels of ambient relative

humidity.

Typical speeds (time to achieve 0.1 N/mm²

as determined by ISO 4587)

Balsa wood 20 seconds
Nitrile rubber 10 seconds
EPDM 10 seconds
Neoprene 10 seconds
Steel (degreased) 20-35 seconds
Polycarbonate 25-35 seconds

Steel (degreas
Polycarbonate
CURED MATERIAL
PROPERTIES
Hardness (Roc

Hardness (Rockwell): M58

Solubility: DMF, Acetone, Acetonitrile

Shear strength: ISO 4587

Steel (grit blasted) >15 N/mm²
Aluminium (grit blasted) >10 N/mm²
Polycarbonate > 6 N/mm²
Nitrile Rubber >10 N/mm²

Tensile Strength: ASTM D412 (B)

Steel (grit based) >18 N/mm²
Nitrile Rubber > 5 N/mm²
EPDM > 5 N/mm²
Neoprene >2.5N/mm²

STORAGE AND SHELF LIFE

Ideal storage temperature: 10-20°C

Container: Store in original packaging

Shelf life: 6 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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