



A NEW FORCE IN CHEMICAL MANUFACTURING

Unit 2, 14-16 Lee Holm Road
St Marys NSW 2760
Australia

Ph: 1300 738 250 (Australia)
Ph: +61 2 9833 9766 (International)
Fax: 02 9623 3670

sales@chemtools.com.au
www.chemtools.com.au

TECHNICAL DATA SHEET

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PRODUCT NAME

8401 Cyanoacrylate Adhesive

PRODUCT RANGE

Part Number	Available Size
8401-20	20g
8401-50	50g
8401-500	500g



Refer to MSDS for product safety guidelines

8401 Surface Insensitive Ethyl Cyanoacrylate Adhesive

Chemtools® 8401 is medium viscosity combined with fast cure speed, surface Insensitive Cyanoacrylate adhesive (CA). It is specifically formulated to bond difficult surfaces with high industrial strength.

APPLICATIONS:

- Ideal for bonding rough, porous and acidic surfaces including Wood, Cardboard, Balsa Wood, Rubbers, Plastics, Metals, Leather, etc.
- Wide variety of industrial manufacturing and repairing applications.
- Meets Military specification MLLA 46050 Type II Class II

BONDING TIMES:

Plastics	2 - 5 seconds	Rubbers	< 3 seconds
Wood	1 - 5 seconds	Leather	5 - 15 seconds
Metals	8 - 10 seconds	Ceramics	12 - 18 seconds

LIQUID PROPERTIES:

Composition	Surface Insensitive Ethyl Cyanoacrylate
Appearance	Colourless liquid
Viscosity @ 25°C Brookfield LVF	80 - 120 cps

CURED ADHESIVE PROPERTIES:

Gap Filling	0.2 mm
Tensile Shear Strength	18 - 28 N/mm ²
Service Temperature Range	-60 to +80°C
Full Cure	24 hours
Melting Point Temperature	160 to 170°C

PHYSICAL PROPERTIES:

Glass Transition Temperature, ASTM E228	122°C
Dielectric Strength, ASTM D149, V/mil	625
Coefficient of Thermal Expansion, ASTM D696, K ⁻¹	90 x 10 ⁻⁶
Coefficient of Thermal Conductivity, ASTM C177, W.m ⁻¹ .K ⁻¹	0.10

MECHANICAL PROPERTIES:**Shear Strength (ASTM D 1002/DIN 53283)**

Grit Blasted Steel	> 20 N/mm ²
Etched Aluminium	> 18 N/mm ²
Rubbers	> 22 N/mm ²
Wood	> 25 N/mm ²
Polycarbonate	> 12 N/mm ²
ABS	> 10 N/mm ²
Grit Blasted Steel	> 20 N/mm ²
Etched Aluminium	> 18 N/mm ²
Rubbers	> 22 N/mm ²
Wood	> 25 N/mm ²
Polycarbonate	> 12 N/mm ²
ABS	> 10 N/mm ²

APPLICATION INSTRUCTIONS:

- All surfaces must be clean, dry, dust and grease free. Best result will be achieved with surfaces that have been lightly abraded immediately prior to bonding.
- If using accelerator apply to one component surface only. Apply thin film of adhesive to the other surface and bring the pieces together immediately. Hold for few seconds without disturbing the joints.
- When bonding 'O' rings, cut a fresh surface onto each end of the rubber to gain the best possible strength.

PRECAUTIONS:

This product is capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the material.

WARRANTY:

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