



TECHNICAL DATA SHEET



CA401 ADHESIVE PART NO. 20401

DESCRIPTION:

DynaGrip CA401 ADHESIVE is medium viscosity combined with fast cure speed, surface insensitive cyanoacrylate adhesive. 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



PHYSICAL PROPERTIES:

Liquid

Composition	Surface Insensitive Ethyl Cyanoacrylate
Appearance	Colour less liquid
Viscosity	80-120 cps @ 25°C Brookfield LVF
Specific Gravity	1.05

Cured Adhesive

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

Mechanical Properties

Glass Transition Temperature, ASTM E228, °C	122
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	0.1

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

CHEMICAL RESISTANCE PROPERTIES:

Chemical	Temp.	% Initial strength retained	
		500 hours	1000 hours
Isopropanol	22 °C	85	85
Gasoline	22 °C	80	75
Motor Oil	40 °C	90	90
Mineral Spirit	22 °C	90	90

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.

DIRECTIONS:

1. Ensure parts are clean and dry.
2. Best results will be achieved with surfaces that have been lightly abraded prior to bonding.
3. Protect clothing and work surfaces. Use in a well-ventilated area.
4. Carefully open bottle while keeping bottle pointed away from face.
5. Apply glue to one surface. Assemble parts and hold together with pressure for 10-30 seconds or until set.
6. If using with DynaGrip® CA745 ACTIVATOR (P/N 20155) apply to one surface only and apply a thin film of adhesive to the other surface. Bring pieces together immediately. Hold for a few seconds without disturbing joints.
7. After use wipe top of nozzle to remove any excess glue before recapping bottle securely.
8. STORE UPRIGHT IN A COOL AREA AWAY FROM SUNLIGHT/HEAT SOURCES.

NOTE: Not for use with Teflon, polyethylene, polypropylene, certain silicone rubber types, glass, rear view mirrors or parts that are subjected to great shock or continuous immersion in water.

CAUTION: EYE IRRITANT. BONDS SKIN & EYES IN SECONDS. Contains ethyl cyanoacrylate. Use with adequate ventilation. Avoid contact with clothing as can cause burn. In case of eye contact, flush with water for 15 minutes; get medical attention for eye or internal contact. To remove from skin, soak in acetone nail polish remover & gently peel adhesive off with fingernail; water exposure will wear off residual adhesive in a few days (do not use polish remover around eye area). **KEEP OUT OF REACH OF CHILDREN.**

GENERAL INFORMATION

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitable of use. Since the supplier cannot know all the uses, or the conditions of use to which their products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

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