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# **TECHNICAL DATA SHEET**

# CA1Q

**Description** ULTRABOND CA1Q is a low viscosity ultra fast setting

velocity Ethyl Cyanoacrylate adhesive. It is especially for difficult to bond substrates. Special for acidic wood

working.

**Application** Ideal for bonding plastics, rubber, TPR elastomers.

Special for difficult to bond rubber compounds. Including EPDM, nitrile, neoprene, viton, EVA, SBS rubber, ABS, plasticized PVC & rigid PVC. For silicon rubber, polyolefin

(PE, PP) bonding use ULTRABOND CP-1 Primer.

Full Cure Speed Plastic : 2 - 3 seconds

Rubber : 2 - 3 seconds
Metal : 3 - 10 seconds
Wood : 2 - 10 seconds

(22℃, 50% relative humidity ASTM D1002, 0.1 N/mm2 tensile

shear strength)

### General Properties

Uncured monomer

Main Component Ethyl Cyanoacrylate

Appearance Colorless Transparent Liquid

Specific gravity, 25°C 1.05

Viscosity 25°C (CPS)

Brookfield LV 2 - 3 CPS

Spindle 2 @ 30 rpm

Flash point >82°C

Shelf life (20°C) months 6

Storage Under 10°C

(Stored in cool & dry place, unopened bottle & out of direct sunlight)

#### Cured Adhesive

Gap Filling 0.04 mm

Tensile Strength  $25 \sim 30 \text{ N/mm}^2$ 

steel - steel ASTM D-2095

Tensile shear Strength  $15 \sim 26 \text{ N/mm}^2$ 

steel/steel ASTM D-1002

Service Temperature Range  $-55 \sim 82^{\circ}C$  Full cure time 24 hours

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<sup>\*\*</sup> All the information is provided on the basic in good faith, and is believed to be trustworthy but is for reference only. Adhesion is very complicated and the result of it is much dependent on the surface material, additives, releasing agents of the substrates and user's methods. UEA and its agents, dealers, distributors, directors and employees cannot accept any liability for the results whatsoever arising from the use of UEA's products due that the utilization of these products is simply out of UEA's control. The users are responsible for selecting the suitability of the products and methods of use.

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### Safety Direction

Danger, irritant

Avoid contact with eyes and skin, bonds skin in seconds. In case of eye contact, flush with plenty water for over 15 minutes and call a physician immediately. Use in well-ventilated place. Avoid contact clothing; it can cause very strong heat.

### Application Direction

- The surfaces to be bonded should be clean and free of grease completely.
- ◆ ULTRABOND CD-1 debonder or acetone can treat excess Adhesive.
- If setting time is too long due to large gaps or low relative humidity.

  ULTRABOND CS-1 Setter can be used.
- If the porosity of surface is higher, higher viscosity type should be better.
- Difficult to bond plastics, like PE, PP, Silicone Rubber, ABS, TPR, EPDM's Adhesion, ULTRABOND CP-1 Primer should be applied firstly, then applied ULTRABOND super glue.