

High Viscosity CA Superglue

Description

Sylmasta High Viscosity Cyanoacrylate Superglue is a high viscosity adhesive where gap fill is important, or where the materials are absorbent surfaces such as wood, paper and some fabrics. Sylmasta High Viscosity Superglue will bond most plastics, rubbers and metals and, because of its viscosity, allows additional bonding time prior to cure.

Applications

It is specifically formulated to rapidly bond difficult substrates and to perform in lower humidity situations. It can be used for sticking plastics, metal, porcelain, fine china, ceramics, jewellery and model making.

Advantages

- Excellent for adhering absorbent surfaces.
- High viscosity allows additional bonding time prior to cure.

Liquid Properties

Ester base	Ethyl-2-cyanoacrylate
Appearance	Clear, colourless
Flashpoint	> 81°C
Density	1.05
Viscosity (25°C - Brookfield, sp. 1, 20rpm)	1250 - 1850 cps
Shelf life (20°C)	12 months unopened

Shear Strengths

Shear strength according to ASTM D1002

Grit blasted steel	> 15 N/mm ²
Etched aluminium	> 10 N/mm ²
Nitrile rubber	> 10 N/mm ²
Polycarbonate	> 6 N/mm ²

Polymer Properties

Appearance	Clear, colourless
Softening point	approx. 130°C
Hardness	M58
Full cure time	24 Hours
Solubility (20°C)	DMF, acetonitrile, acetone.

Cure Speeds

Substrate	Cure (seconds)
Balsa / Balsa	< 1
Nitrile rubber / Nitrile rubber	< 7
Neoprene / Neoprene	< 7
EPDM / EPDM	< 7
Steel / Steel	25 - 40
PVC / PVC	5 - 10
Polycarbonate / Polycarbonate	25 - 40

Tensile Strength

Tensile strength according to ASTM D412 [B]

Grit blasted steel	> 18 N/mm ²
Nitrile Rubber	> 5 N/mm ²
Neoprene Rubber	> 5 N/mm ²
EPDM Rubber	> 2.5 N/mm ²

Storage

Cyanoacrylates should be stored in the original sealed container until used. Containers should be stored between 10°C - 22°C. Avoid exposure to strong light and heat sources. optimal storage conditions can be achieved by refrigeration.

Presentation

Bottles: 20g, 50g & 500g

Health & Safety

Cyanoacrylate superglue is classified as an irritant and bonds skins and eyes instantly

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy themselves that each product is fit for the purpose for which they intend to use it, that the actual conditions of use are suitable and that in the light of our continual research and development programme the information relating to each product has not been superseded.