

# CAE3 Low Viscosity Superglue

## DESCRIPTION

Sylmasta Low Viscosity Cyanoacrylate Superglue is a low viscosity surface insensitive cyanoacrylate adhesive. It is specifically formulated to rapidly bond difficult substrates and to perform in lower humidity situations.

## LIQUID PROPERTIES

Ester base . . . . .	Ethyl-2-cyanoacrylate
Appearance . . . . .	Clear, colourless
Flashpoint . . . . .	> 81°C
Density . . . . .	1.05
Viscosity (25°C - Brookfield, sp. 1, 20rpm) . . . . .	2 - 6 cps
Shelf life (20°C) . . . . .	12 months unopened

## POLYMER PROPERTIES

Appearance . . . . .	Clear, colourless
Softening point . . . . .	approx. 130°C
Refractive index, $n_D^{20}$ . . . . .	1.45
Full cure time . . . . .	24 Hours
Solubility (20°C) . . . . .	DMF, acetonitrile, acetone.

## CURE SPEEDS

Substrate . . . . .	Cure (seconds)
Balsa / Balsa . . . . .	< 3
Nitrile rubber / Nitrile rubber . . . . .	< 5
Neoprene / Neoprene . . . . .	< 5
EPDM / EPDM . . . . .	< 5
Steel / Steel . . . . .	10 - 20
PVC / PVC . . . . .	3 - 10
Polycarbonate / Polycarbonate . . . . .	10 - 40

## SHEAR STRENGTHS

Shear strength according to ASTM D1002	
Grit blasted steel . . . . .	> 15 MPa
Etched aluminium . . . . .	> 11 MPa
Nitrile rubber . . . . .	> 10 MPa
Polycarbonate . . . . .	> 12 MPa

## TENSILE STRENGTH

Tensile strength according to ASTM D2095	
Grit blasted steel > 18 N/mm <sup>2</sup>	
Nitrile Rubber > 5 N/mm <sup>2</sup>	
Neoprene Rubber > 5 N/mm <sup>2</sup>	
EPDM Rubber > 2.5 N/mm <sup>2</sup>	

## 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

Code	Taille
CAE/20g	20g
CAE/50g	50g
CAE/500g	500g

## HEALTH & SAFETY IN USE

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in the light of our continual research and development programme the information relating to each product has not been superseded.*