



**BRUSH-ON  
SUPER GLUE**

**77SUPG5018**

**PRODUCT DESCRIPTION:**

GLUEANGEL BRUSH-ON SUPER GLUE is a general industrial grade Cyanoacrylate adhesive with fast setting, and good flow ability. It has been specially formulated to achieve the strongest possible bond between well-mated, non-porous surfaces, such as rubber O-rings as well as other rubber and plastics parts.

GLUEANGEL BRUSH-ON SUPER GLUE is a one-component, solvent-free adhesive manufactured without the use of hydroquinone. It is a moderately flexible medium viscosity cyanoacrylate and does not require the use of a catalyst, heat or clamps. When a thin layer of BRUSH-ON SUPER GLUE applied between two surfaces comes into contact with atmospheric moisture, a rapid polymerization occurs producing the ultimate bond.

**TYPICAL PROPERTIES OF UNCURED MATERIAL:**

Base	Ethyl Cyanoacrylate
Colour	Transparent, colourless to yellowish liquid
Specific Gravity @ 25°C	1.10
Refractive Index (n D 20)	1.439
Flash Point	See SDS
Vapour Pressure	(hPa) < 1
Viscosity (cP), 25°C	80 – 120
Shelf life	12 months
Storage Life Below 5°C	14-16 months





## TECHNICAL DATA SHEET

### CURING PERFORMANCE :

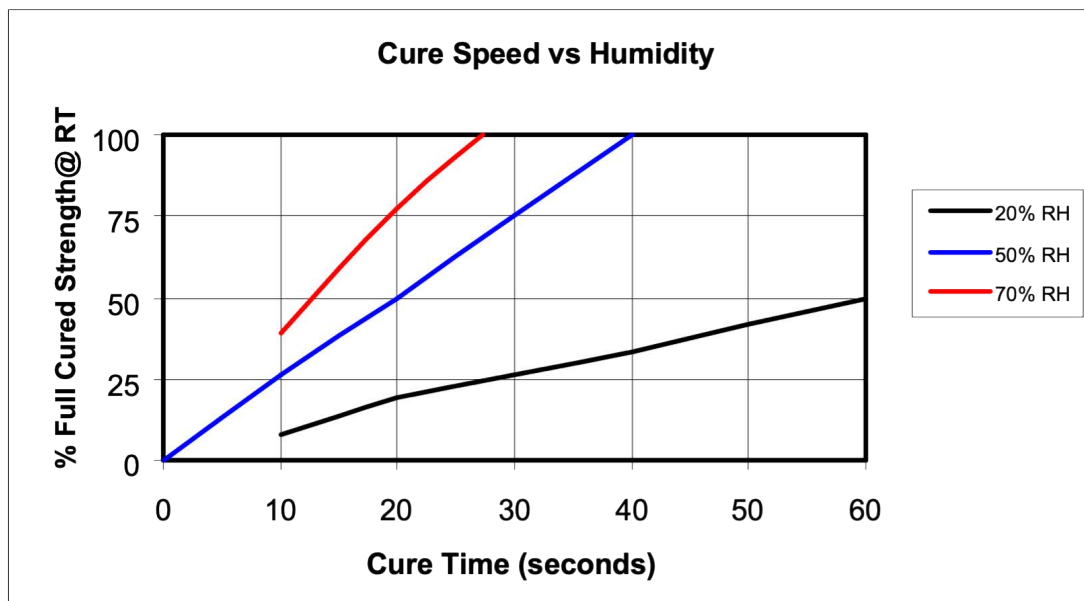
There are many factors that can influence the rate of cure. These include: the types of substrate used, the condition of the surface to be bonded, the smoothness of the surface, the closeness of the surfaces, the atmospheric conditions etc.

### CURE SPEED / SUBSTRATE

Steel to Steel	20 – 55 seconds
Stainless Steel	30 – 90 seconds
Aluminum	10 – 30 seconds
Zinc plated	40 – 90 seconds
ABS to ABS	15 – 45 seconds
ABS to NBR	5 – 15 seconds
ABS to Wood	5 – 10 seconds
NBR to NBR	5 – 10 seconds
Polycarbonate	20 – 60 seconds

### CURE SPEED / HUMIDITY:

The following graph shows the tensile strength developed at different levels of humidity.





## TECHNICAL DATA SHEET

### CURE SPEED / BOND GAP:

GLUEANGEL applied in a very thin line in order to ensure rapid polymerisation and a strong bond. Excessive bond gaps will result in slower cure speeds. Activators may be used to greatly increase cure speeds.

### TYPICAL PROPERTIES OF CURED MATERIAL:

<b>Physical Properties</b>	
Color	Clear
Coefficient of Thermal Expansion (K <sup>-1</sup> )	100 x 10 <sup>-6</sup>
Coefficient of Thermal Conductivity (W/m.K)	0.10
Softening Point	165°C
<b>Physical Properties</b>	
Volume Resistivity (Ω.cm)	1 x 10 <sup>16</sup>
Surface Resistivity (Ω)	1 x 10 <sup>16</sup>
Dielectric Constant @ 10 kHz	2.75
Dielectric Dissipation Factor @ 10 kHz	<0.02
Dielectric Breakdown Strength (kV/mm)	25

### ADHESIVE PERFORMANCE :

After 24 hours at 25°C

<b>Tensile Strength</b>	
Steel	190 – 210 kg/ cm <sup>2</sup>
Stainless Steel	250 – 450 kg/ cm <sup>2</sup>
Aluminum	170 – 190 kg/ cm <sup>2</sup>
Copper	150 – 170 kg/ cm <sup>2</sup>
PVC	40 – 60 kg/ cm <sup>2</sup>
ABS	50 – 70 kg/ cm <sup>2</sup>
Polycarbonate	80 – 120 kg/ cm <sup>2</sup>
Polystyrene	30 – 45 kg/ cm <sup>2</sup>
NBR	5 – 9 kg/ cm <sup>2</sup>
SBR	5 – 10 kg/ cm <sup>2</sup>

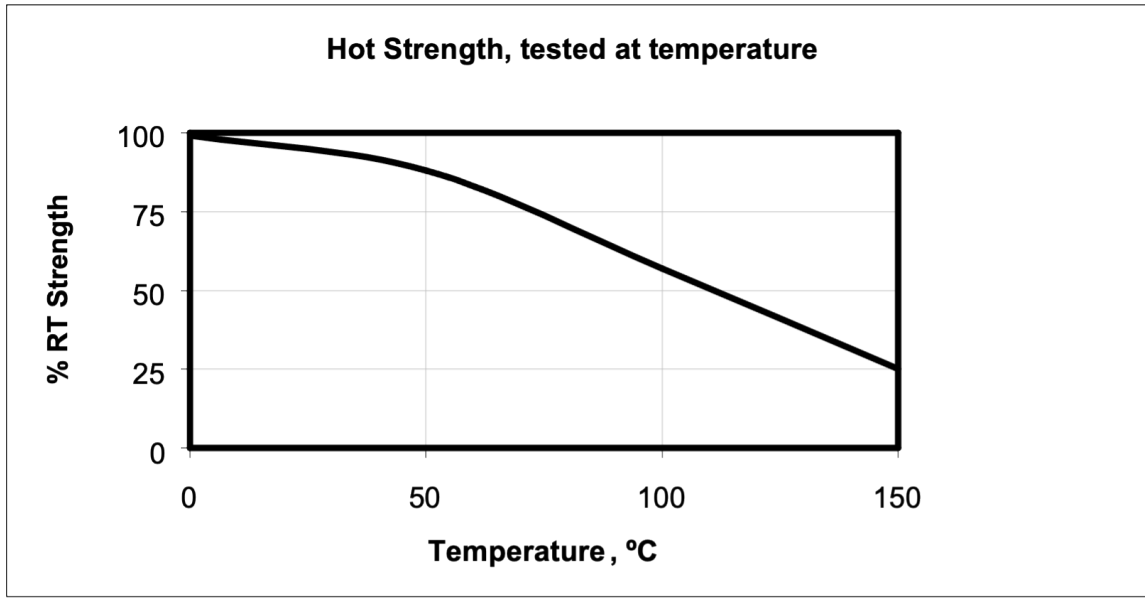




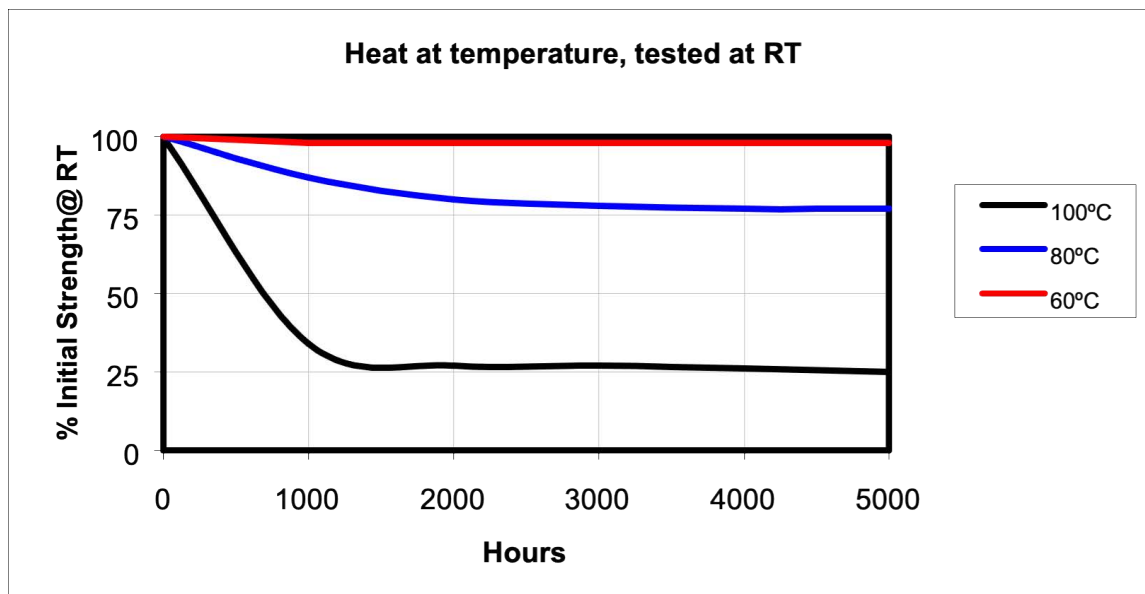
**TECHNICAL DATA SHEET**

**TYPICAL ENVIRONMENTAL RESISTANCE**

**Hot Strength:**



**Heat Aging:**





## TECHNICAL DATA SHEET

### DIRECTIONS FOR USE :

- Ensure surfaces to be joined are clean, dry and grease-free.
- Apply GLUEANGEL Super Glue to one surface only.
- Join surfaces immediately and apply pressure for 30 seconds.
- Replace cap and store out on sunlight in a refrigerator for maximum product life.

### STORAGE AND SHELF LIFE:

GLUEANGEL BRUSH-ON SUPER GLUE has a shelf life of 12 months (the expiry date is shown on the packaging), when stored at a temperature between 2°C and 8°C in its original unopened packaging. Refrigeration at 5°C gives optimum storage stability. Temperatures less than 2°C can adversely affect product properties. Do not freeze.

**Storage:** Store in a cool, dry area out of direct sunlight. Keep container tightly closed until ready for use.

**Handling:** Material removed from containers may be contaminated during use. Do not pour back any product to the original container. Misuse of product will void all warranties.

### CAUTIONS:

- Contains Cyanoacrylate Adhesive and can bond skin and eyes in seconds.
- In case of eye contact. Flush with water and seek medical attention.
- If skin bonding occurs, soak in warm soapy water or acetone.
- Keep out of reach of children.
- Contact through clothing may cause exothermic reaction and burning (See SDS).
- Store in a cool, dry place at 20-25°C (68-77°F). For long-term storage, refrigeration (2°C or 35°F) is recommended.

### PACKAGING:

8g brush-on blister pack





## TECHNICAL DATA SHEET

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