TECHNICAL DATA SHEET

INSTANT ADHESIVE
BLACK SEMI-GEL • RUBBER TOUGHENED

PART NO. **CA500RT**

DESCRIPTION

CA500RT is a black, medium viscosity, rubber-toughened ethyl instant adhesive. It provides superior shock and thermal resistance when bonding rubbers, metals, and plastics in harsh environments, and displays excellent strength and flexibility on a variety of substrates.

PHYSICAL PROPERTIES

Technology / Base	Modified Ethyl
Type of Product	Cyanoacrylate
Components	One Component
Curing	Humidity
Appearance / Color	Black
Consistency	Semi-Gel

TECHNICAL DATA

Property		Value	Method/Condition
Rheology			
Viscosity		500 +/- 100 cPs	Brookfield SC4-21, @ 25°C
Density			
Specific Gravity		1.06	N/A
Uncured Materials Characteristics			
Flash Piont		80°C (176°F)	N/A
Set Time	Steel (sec)	<60	N/A
	ABS (sec)	<50	N/A
	EPDM (sec)	<40	N/A
Shelf Life		12mo	N/A
Cured Materials Characteristics			
Full Cure Time		24 hours	N/A
Cure Appearance		Black	N/A
Service Temperature		-55 to 140°C	N/A
Cured Mechanical Properties			
See Graphs and Table			

INSTRUCTIONS

Surfaces to be bonded should be clean and dry. Dispense a drop or drops to one surface only. Apply only enough to leave a thin film layer after compression. Press parts together and hold firmly for a few seconds. Good contact is essential. An adequate bond develops in less that one minute and maximum strength is attained in 24 hours. Wipe off excess adhesive from the top of the container and recap. Products, if left uncapped, may deteriorate by contamination from moisture in the air. Because products cure by polymerization, whitening may appear on the surface of the container or the bonded materials. This will not affect adhesive performance.

CURING PERFORMANCE

Ambient surface moisture initiates the curing process. Handling strength is reached in a short time, and will vary based on environmental conditions, bond line gap, and other factors. Product will continue to cure for at least 24 hours before full strength and solvent resistance is developed.

STORAGE

Containers should be stored in a cool, dry, dark area. Storage temperature 15.5°C - 25°C (60°F - 77°F), without exposure to direct light or heat. Do not refrigerate.

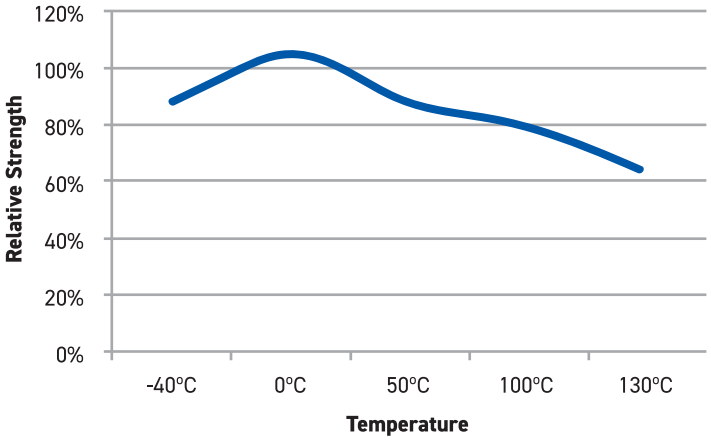
SPECIFICATIONS AND APPROVALS

Mil-A-46050C, Type II Class 3,
CID A-A-3097, Type II Class 3

SAFETY & DISPOSAL

For safe handling information and disposal instructions on this product, consult the Safety Data Sheet (SDS).

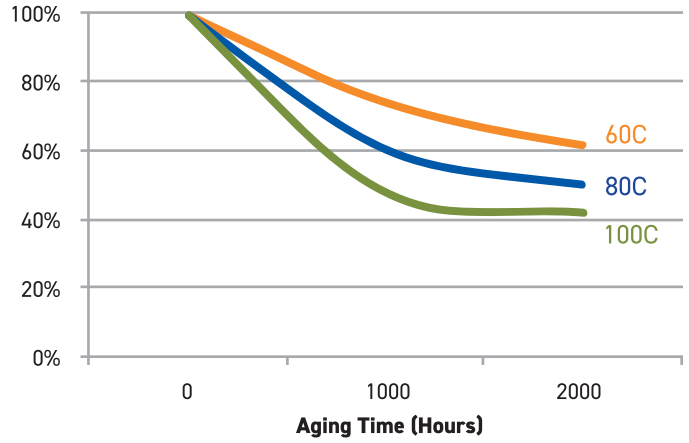
HOT STRENGTH %RT Strength, Tested at Temperature



SOLVENT RESISTANCE

Solvent	Resistance
Alcohol	Excellent
Ester (aromatic)	Excellent
Ketone (aromatic)	Poor
Aliphatic hydrocarbon (alkanes)	Good
Aromatic hydrocarbons	Good
Halogenated hydrocarbons	Poor
Weak aqueous acid	Excellent (Poor if concentrated)
Weak aqueous base	Excellent (Poor if concentrated)

HEATING AGING Aged at Temperature Indicated & Tested at 22°C



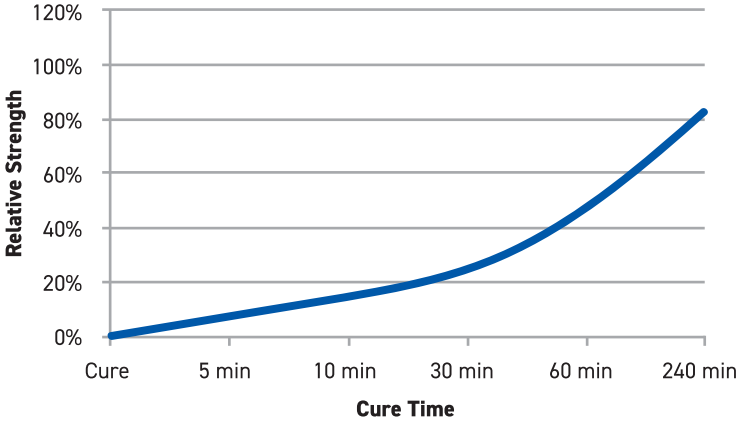
PERFORMANCE OF CURED ADHESIVE

Substrate	N/mm²			PSI		
Steel	13.8	to	24.1	2000	to	3500
Rubber*	4.9	to	15.2	710	to	2200
AL	18.0	to	21.5	2610	to	3115
PC**	17.8	to	26.0	2585	to	3770
PVC**	11.4	to	21.4	1655	to	3110
ABS**	15.5	to	17.2	2250	to	2500

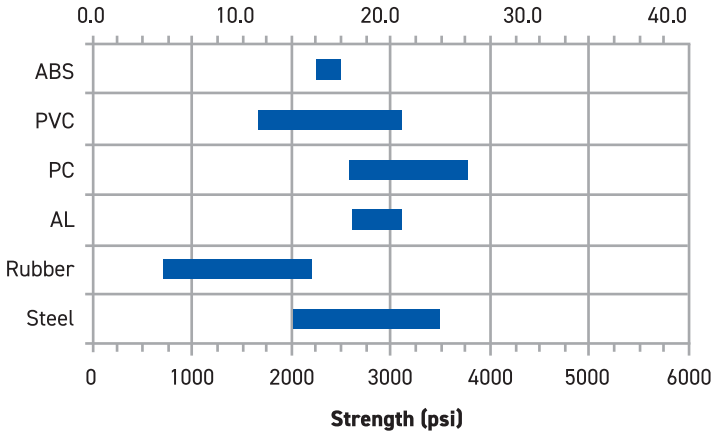
***Rubber figures given are typical.** Your results may vary by specific rubber type.

**Tested to ASTM 4501 ***n/r = not recommended

TIME UNTIL FULL CURE %RT Strength



PERFORMANCE RANGE BY SUBSTRATE (N/mm²)



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