

## TECHNICAL DATA SHEET FOR PROCURE PC85

### PRODUCT DESCRIPTION

Specially formulated for applications requiring high; viscosity, impact and peel resistance. **PC85** develops strong bonds on most metals, plastics or rubbers. **PC85** is a one-component solvent-free and does not require the use of a catalyst, heat or clamps. When a thin layer of **PC85** is applied between two surfaces comes into contact with atmospheric moisture, a rapid polymerization occurs producing the ultimate bond.

Base	Ethyl Cyanoacrylate
Color	Clear to slightly cloudy gel
Specific Gravity @ 25°C	1.05
Refractive Index (n D <sup>20</sup> )	1.439
Flash Point	See MSDS
Vapour Pressure (hPa)	< 1
Viscosity (cP) @ 25°C	3500 – 6000
Shelf life	6 months
Storage Life Below 5°C	8-10 months

### 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 and the atmospheric conditions.

Steel to Steel	20 – 50 seconds
Stainless Steel	60 – 120 seconds
Aluminium	10 – 30 seconds
Zinc Plated	30 – 90 seconds
ABS to ABS	25 – 70 seconds
ABS to NBR	3 – 5 seconds
ABS to Wood	5 – 10 seconds
NBR to NBR	5 – 10 seconds
Polycarbonate	30 – 70 seconds

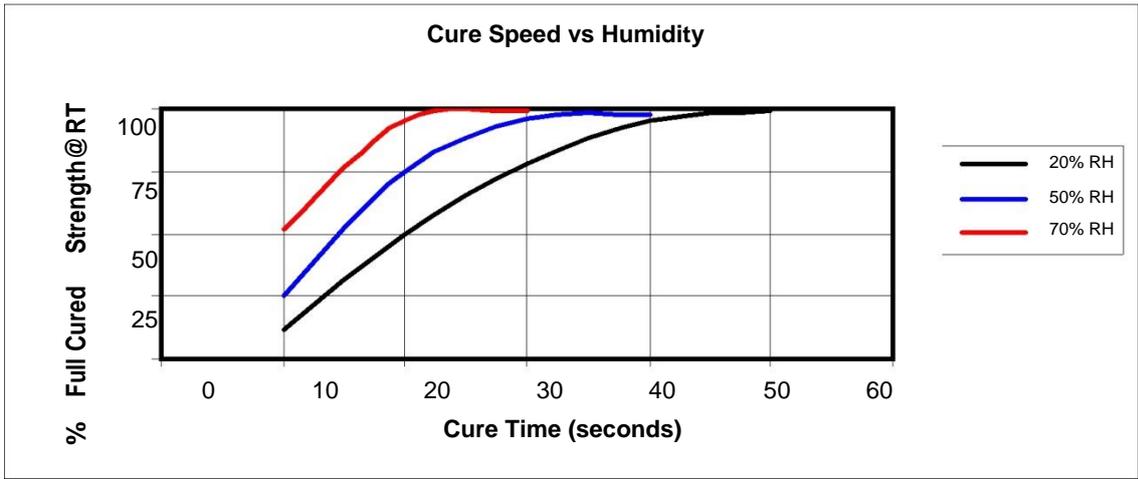
#### CYANOTECH LTD

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**PC85**  
**V1.3**  
**JUN 16**

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**CURE SPEED / HUMIDITY**  
The following graph shows the tensile strength developed at different levels of humidity.



**CURE SPEED / BOND GAP**  
The rate of cure depends on the bond-gap. A smaller bond-gap results in faster cure speeds

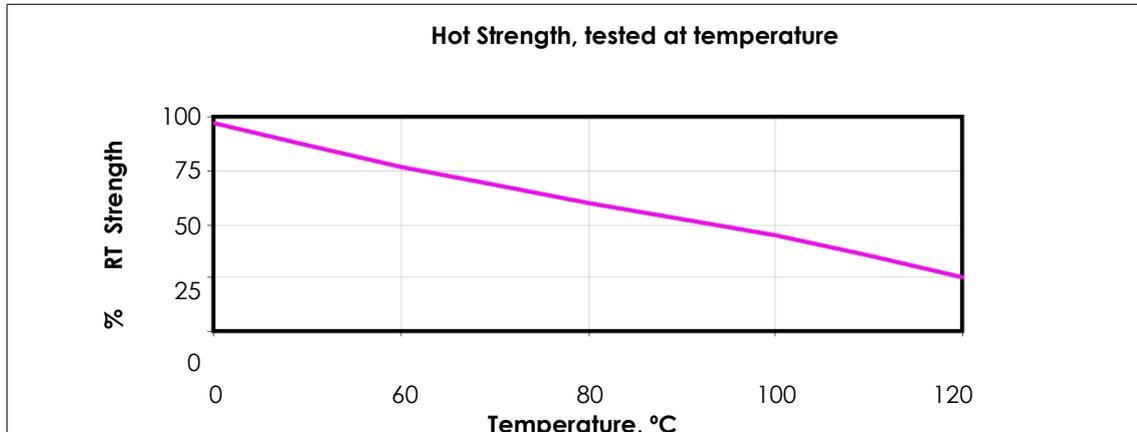
Physical Properties	
Coefficient of Thermal Expansion (K <sup>-1</sup> )	80 x 10 <sup>-6</sup>
Coefficient of Thermal Conductivity (W/m.K)	0.10
Working temperature (°C)	-55°C - 125°C
Electrical Properties	
Volume Resistivity (Ω.cm)	1 x 10 <sup>16</sup>
Surface Resistivity (Ω)	1 x 10 <sup>16</sup>
Dielectric Constant @ 10 kHz	2.5
Dielectric Dissipation Factor @ 10 kHz	<0.02
Dielectric Breakdown Strength (kV/mm)	25

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<b>ADHESIVE PERFORMANCE (After 24hrs at 25c)</b>	
<b>Tensile Strength</b>	
Steel	180 – 250 Kg/cm <sup>2</sup>
Stainless Steel	160 – 220 Kg/cm <sup>2</sup>
Aluminium	110 – 190 Kg/cm <sup>2</sup>
Copper	120 – 170 Kg/cm <sup>2</sup>
PVC	40 – 80 Kg/cm <sup>2</sup>
ABS	50 – 100 Kg/cm <sup>2</sup>
Polycarbonate	50 – 120 Kg/cm <sup>2</sup>
Polystyrene	30 – 110 Kg/cm <sup>2</sup>
NBR	50 – 100 Kg/cm <sup>2</sup>
SBR	50 – 100 Kg/cm <sup>2</sup>

**TYPICAL ENVIRONMENTAL RESISTANCE**

**Hot Strength:**



**DIRECTIONS FOR USE**

1. Make sure the surfaces to be bonded are clean and dry (preferable to solvent-wipe plastics, glass, and rubber, and to acid-treat metals).
2. Dispense a drop or drops to one surface only. Apply only enough to leave a thin film after compression.
3. Press parts together and hold firmly for a few seconds. Good contact is essential. An adequate bond develops in less than one minute. (Maximum strength is achieved in 24 to 48 hours).
4. Wipe off excess adhesive from the top of the container and recap **PC85** if left uncapped, may deteriorate by contamination from moisture in the air.

Because **PC85** polymerises on contact with moisture surfaces, sometimes whitening will occur on the surface of the container or the bonded materials. Should this happen, wipe surfaces well with PC68 de-bonder.

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### STORAGE AND HANDLING

Storage: Keep products in the unopened container in a cool, and dry location. Best when stored at 2 to 8°C. Temperatures less than 2°C can adversely affect product properties. Do Not Freeze. 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.

### PRECAUTIONS

1. Use with proper ventilation. Avoid contact with skin and eyes.
2. If contact with skin occurs, rinse with warm water or dissolve gradually with appropriate debonder. Do not try to remove forcibly.
3. If adhesive gets into eye, keep eye open and rinse thoroughly. Seek medical attention immediately.
4. Keep well out of reach of children.
5. Keep adhesive in a cool, dry place 20-25°C. For long-term storage, refrigeration (2°C) is recommended.

### DISCLAIMER

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