

### TECHNICAL DATA SHEET FOR PROCURE PC80

#### PRODUCT DESCRIPTION

**Procure PC80** is a black ethyl cyanoacrylate, with higher peel and shock resistance than other grades. **PC80** has a longer setting time than regular Cyanoacrylate adhesive which allows enough time for users to put materials together after application. It has been specially formulated to achieve the strongest possible bond between well-mated, non-porous surfaces, such as rubber, metals, plastics, etc. **PC80** is a one-component, solvent-free system and does not require the use of a catalyst, heat or clamps. When a thin layer of **PC80** applied between two surfaces comes into contact with atmospheric moisture, a rapid polymerization occurs producing the ultimate bond.

LIQUID STATE		CURED STATE	
Base	Ethyl Cyanoacrylate	Colour	Black
Colour	Black	Specific Gravity(20°C)	1.1~1.3
Specific Gravity(20°C)	1.053~1.06 0	Working Temperature( ° C)	-50°C - 125°C
Refractive Index ( n <sup>20<sub>D</sub></sup> )	1.439	Refractive Index( n <sup>20<sub>D</sub></sup> )	1.490
Flash Point ( C)	>80 C	Dielectric Constant(at 10MHz)	3.5
Shelf Life	6 Months	Dielectric Loss(at 10MHz)	0.067
Boiling Point(° C)	65/6mm Hg	Soluble in Acetone, Dimethyl formamide, nitromethane, Dimethyl sulfoxide	
Viscosity (cP).....		<b>Procure PC80</b> .....	500-1000

#### TYPICAL APPLICATIONS

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 hours).
4. Wipe off excess adhesive from the top of the container and recap, **PC80** if left uncapped, may deteriorate by contamination from moisture in the air.
5. Because **PC80** 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.

**TECHNICAL DATA SHEET FOR PROCURE PC80**

<b>BOND STRENGTH</b>	<b>KG/CM<sup>2</sup></b>		<b>KG/CM<sup>2</sup></b>
Rigid PVC to Rigid PVC	40-60	SBR to SBR	5-10
ABS to ABS	50-70	Steel to Steel	190-210
Polycarbonate to Polycarbonate	80-120	Stainless steel to Stainless steel	160-180
Polystyrene to Polystyrene	30-45	Aluminium to Aluminium	170-190
Natural rubber to Natural rubber	5-9	Copper to Copper	150-170
*Neoprene to Neoprene	5-9	Steel to Rigid PVC	50-60
NBR to NBR.....	5-9	Stainless steel to Neoprene	5-10
ABS to SBR.....	5-10		

**PRECAUTION**

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 de-bonder. 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 (5°C) is recommended.

**DISCLAIMER**

The data contained herein are furnished for informational purposes only and are believed to be reliable. However, Cyanotec Ltd does not assume responsibility for any results obtained by persons over whose methods Cyanotec Ltd has no control. It is the user's responsibility to determine the suitability of Cyanotec Ltd products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Cyanotec Ltd's products. Cyanotec Ltd specifically disclaims all warranties express or implied, including warranties of saleability and suitability for a particular purpose arising from sale or use of Cyanotec's products. Cyanotec Ltd further disclaims any liability for consequential or incremental damages of any kind including lost profits.