

TECHNICAL DATASHEET

802 NEOFLEX

QUICK & STRONG CYANOACRYLATE ADHESIVE

DESCRIPTION:

NeoSeal® 802 NEOFLEX is a high strength, fast setting adhesive which can be used for virtually any type of fastening job. NeoSeal® 802 NEOFLEX has become one unique product featuring with the fastest setting ability in the realm of Cyanoacrylate Adhesive. NeoSeal® 802 NEOFLEX is specially designed for bonding and repairing of wooden furniture. Better efficiency and quality combined with cost saving have made NeoSeal® 802 NEOFLEX to be a substitute for repair material. When a thin layer of NeoSeal® 802 NEOFLEX applied between two surfaces comes into contact with atmospheric moisture, a rapid polymerization occurs producing the ultimate bond.

APPLICATION:

To join, fix and repair various type of flex material, ceramics, leather, wood, metal, plastic, rubber, electronics parts etc.

TECHNICAL SPECIFICATIONS:

No	Properties	Specifications
1	Colour	Transparent, colourless to yellowish coloured liquid
2	Brookfield Viscosity 25°C	1.8 – 5 cP
3	Sp. Gravity 25°C	1.1
4	Refractive Index (n D ²⁰)	1.439
5	Vapor Pressure (hPa)	< 1
6	Base	Ethyl Cyanoacrylate

CURING PERFORMANCE:

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

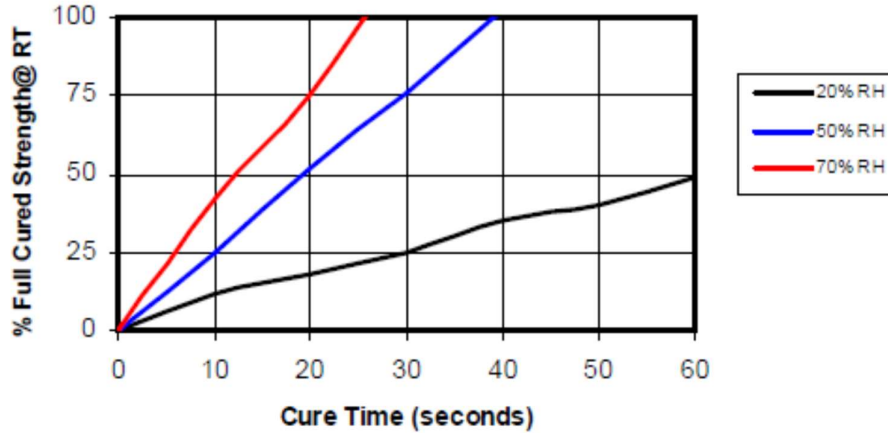
1. Cure Speed / substrate:

No	Type of substrate	Cure Speed
1	Steel to Steel	5 – 10 seconds
2	Stainless Steel	3 – 5 seconds
3	Aluminium	5 – 15 seconds
4	Zinc Plated	20 – 40 seconds
5	ABS to ABS	3 – 5 seconds
6	ABS to NBR	2 – 5 seconds
7	ABS to Wood	5 – 10 seconds
8	NBR to NBR	2 – 5 seconds
9	Wood	10 – 30 seconds
10	Polycarbonate	10 – 40 seconds

2. Cure Speed / Humidity:

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

Cure Speed vs Humidity



3. Cure Speed / Bond Gap:

The rate of cure depends on the bond-gap. A smaller bond-gap results in faster the cure speed.

TYPICAL PROPERTIES OF CURED MATERIAL:

Physical Properties	Typical Value
Colour	Clear
Coefficient of Thermal Expansion (K^{-1})	100×10^{-6}
Coefficient of Thermal Conductivity (W/m.K)	0.10
Softening Point	165°C
Electrical Properties	
Volume Resistivity ($\Omega \cdot \text{cm}$)	2 to 10×10^{15}
Surface Resistivity (Ω)	10 to 80×10^{15}
Dielectric Constant at 10 kHz	2.5
Dielectric Dissipation Factor at 10 kHz	<0.02
Dielectric Breakdown Strength (kV/mm)	25

ADHESIVE PERFORMANCE:

Steel	Tensile Strength (After 24 hours at 25°C)
Stainless Steel	150 – 210 Kg/cm ²
Aluminium	150 – 250 Kg/cm ²
Copper	140 – 170 Kg/cm ²
PVC	130 – 150 Kg/cm ²
ABS	40 – 60 Kg/cm ²
Polycarbonate	50 – 70 Kg/cm ²
Polystyrene	80 – 120 Kg/cm ²
NBR	5 – 9 Kg/cm ²
SBR	5 – 10 Kg/cm ²

**DIRECTION FOR USE:**

- Make sure the surfaces to be bonded are clean and dry (preferable to solvent-wipe plastics, glass, and rubber, and to acid-treat metals).
- Dispense a drop or drops to one surface only. Apply only enough to leave a thin film after compression.
- 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).
- Wipe off excess adhesive from the top of the container and recap NeoSeal® 802 NEOFLEX if left uncapped, may deteriorate by contamination from moisture in the air.
- Because NeoSeal® 802 NEOFLEX condenses by polymerization, sometimes whitening will occur on the surface of the container or the bonded materials. Should this happen, wipe surfaces well with acetone.

PACKAGING SIZE:

20 gm & 50 gm

SHELF LIFE AND STORAGE:

9 months from the date of manufacturing in unopened condition when store under recommended condition. Keep products in the unopened container in a cool and dry place. Keep adhesive in a cool, dry place at 20°C - 25°C. For long-term storage, refrigeration (2°C or 35°F) is recommended.

HANDELING & SAFETY PRECASUTIONS:

- 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.
- Use with proper ventilation. Avoid contact with skin and eyes.
- If contact with skin occurs, rinse with warm water or dissolve gradually with solvent such as acetone, or MEK. Do not try to remove forcibly.
- If adhesive gets into eye, keep eye open and rinse thoroughly. Seek medical attention immediately.
- Keep well out of reach of children.

WARRANTY:

The above information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and our responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.

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