

TECHNICAL DATASHEET
803 NEOQUICK
CYNOACRYLATE ADHESIVE

DESCRIPTION:

NeoSeal® 803 NEOQUICK is a GENERAL Industrial grade Cynoacrylate 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. NeoSeal® 803 NEOQUICK is a one-component, solvent-free system and does not require the use of a catalyst, heat or clamps. When a thin layer of NeoSeal® 803 NEOQUICK 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	20 – 40 cP
3	Sp. Gravity 25°C	1.10
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.

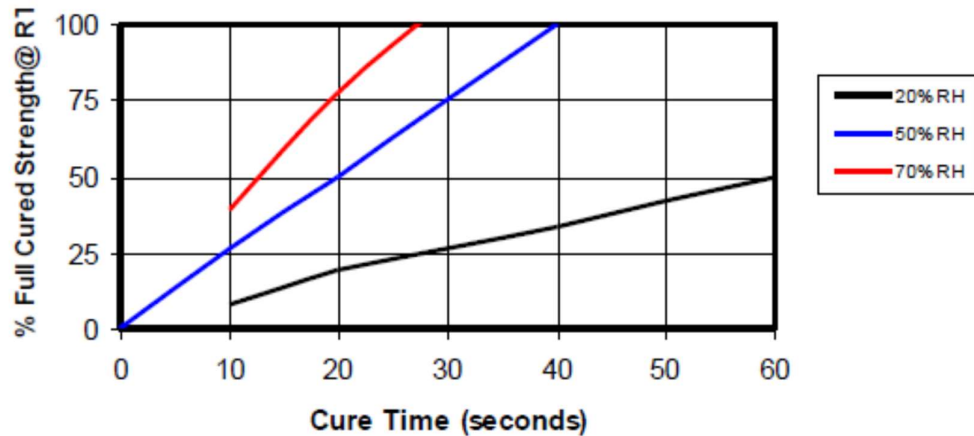
1. Cure Speed / substrate:

No	Type of substrate	Cure Speed
1	Steel to Steel	10 – 30 seconds
2	Stainless Steel	30 – 60 seconds
3	Aluminium	5 – 15 seconds
4	Zinc Plated	30 – 90 seconds
5	ABS to ABS	5 – 20 seconds
6	ABS to NBR	3 – 5 seconds
7	ABS to Wood	5 – 10 seconds
8	NBR to NBR	5 – 10 seconds
9	Wood	60 – 75 seconds
10	Polycarbonate	20 – 60 seconds
11	Leather	30 – 60 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:

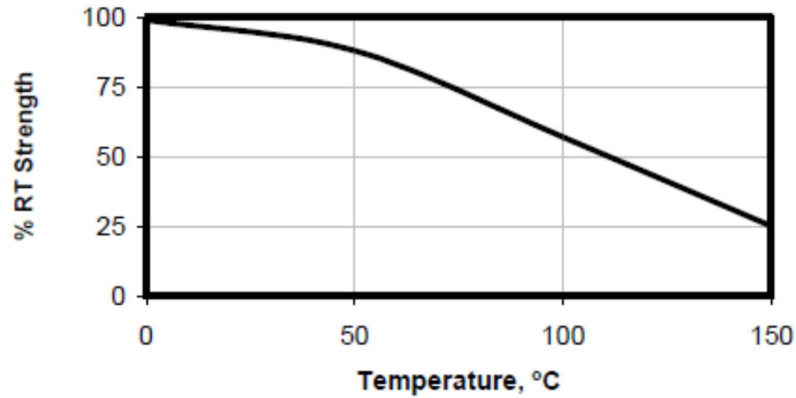
Physical Properties	Typical Value
Colour	Clear
Coefficient of Thermal Expansion (K^{-1})	100×10^{-6}
Coefficient of Thermal Conductivity (W/m.K)	0.10
Softening Point	165°C
Electrical Properties	
Volume Resistivity ($\Omega.cm$)	1×10^{16}
Surface Resistivity (Ω)	1×10^{16}
Dielectric Constant at 10 kHz	2.75
Dielectric Dissipation Factor at 10 kHz	<0.02
Dielectric Breakdown Strength (kV/mm)	25

ADHESIVE PERFORMANCE:

Substrates Type	Tensile Strength (After 24 hours at 25°C)
Steel	190 – 210 Kg/cm ²
Stainless Steel	250 – 450 Kg/cm ²
Aluminium	170 – 190 Kg/cm ²
Copper	150 – 170 Kg/cm ²
PVC	40 – 60 Kg/cm ²
ABS	50 – 70 Kg/cm ²
Polycarbonate	80 – 120 Kg/cm ²
Polystyrene	30 – 45 Kg/cm ²
NBR	5 – 9 Kg/cm ²
SBR	5 – 10 Kg/cm ²

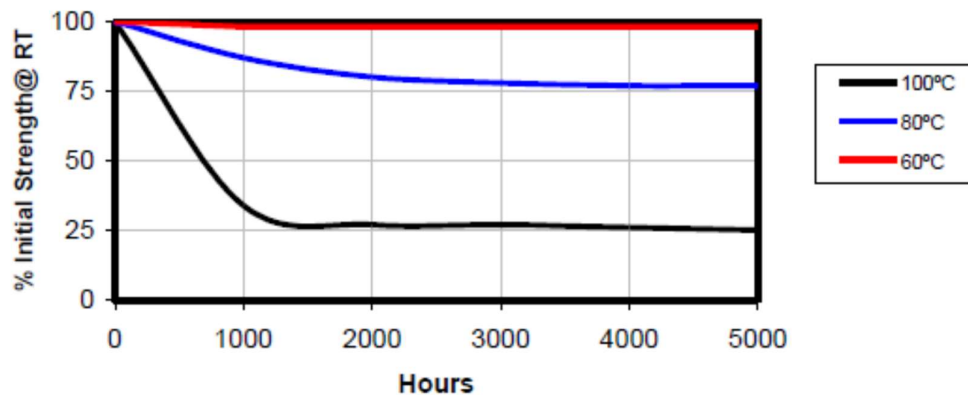
Hot Strength:

Hot Strength, tested at temperature



Heat Aging:

Heat at temperature, tested at RT



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® 803 NEOQUICK if left uncapped, may deteriorate by contamination from moisture in the air.
- Because NeoSeal® 803 NEOQUICK 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 warrantees.
- 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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