



GEL CYANO

UNIVERSAL INSTANT ADHESIVE GEL

POROUS MATERIALS

DEFINITION

Very rapid bonding cyanoacrylate gel glue for all materials. Excellent for gluing wood, leather, fabric, ceramics, plastic, glass, etc., and is particularly good for porous materials and for vertical or upside-down gluing.

ADVANTAGES

- High-performance gluing. Instant adherence.
- Easy-to-use.
- Does not run, does not drip.
- Significant tearing strength.
- Economical: 1 20g bottle can glue up to 4,000 times. 1 drop = 1 cm², approx.

APPLICATION FIELDS

Rubbers, Neoprene, Nylon, etc.
Mechanical, electronic, optical, jewellery, watchmaking, toys, plastics processing, domestic appliances, knick-knacks, dishes.
Bonding porous materials.
Glue does not run and can be used for vertical and/or upside-down applications.
All materials except Teflon, polyethylene and their derivatives.

TECHNICAL CHARACTERISTICS

Colour	translucent
Density	1.05
Viscosity	1000 - 2000 cP
Flash point	> 85°C
Operating temperature	-60°C to +100°C
Flash point	> 93°C
Backlash for ideal gluing	between 0 and 0.05 mm
Maximum tolerated backlash	0.2 mm.

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Head office

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SETTING TIME

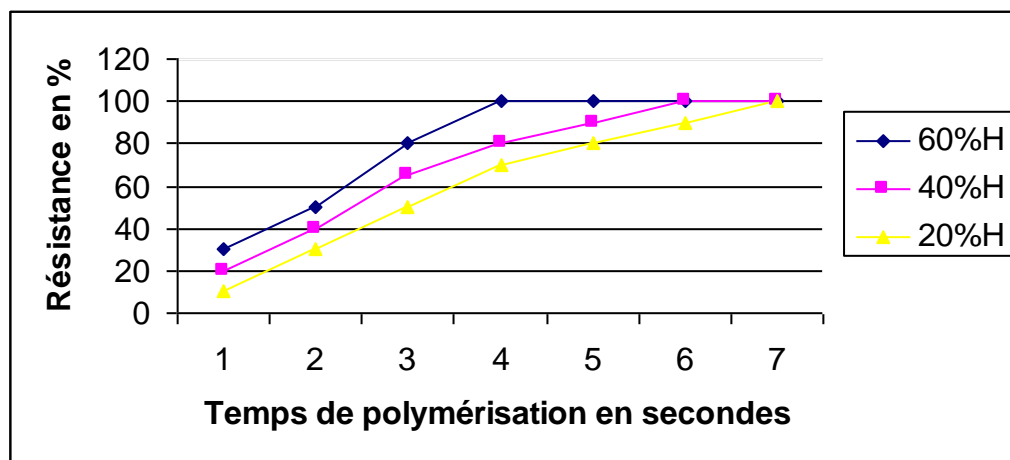
Setting time depends on the material, its surface condition, clearance between parts and relative humidity. Tests performed at 20°C and 50% relative humidity.

The times given are the times after which shearing strength is 0.1 N/mm² (14.5 psi) according to the ASTM D1002 standard.

Note: maximum strength (mechanical and chemical) is obtained after 24 hours of polymerisation. The lower the clearance, the faster setting.

ABS	5 to 10 seconds
PVC	5 to 10 seconds
Glass	5 to 15 seconds
Rubbers	< 5 seconds
Neoprene	< 10 seconds
Steel	5 to 15 seconds
Aluminium	5 to 15 seconds
Treated surfaces	5 to 30 seconds
Wood	90 to 120 seconds
Balsa wood	5 to 15 seconds
Leather	5 to 30 seconds
Fabric	5 to 30 seconds
Polycarbonate	5 to 40 seconds
Paper	5 to 60 seconds

RATE OF POLYMERISATION BASED ON RELATIVE HUMIDITY



Polymerisation time in seconds

PHYSICAL PROPERTIES OF THE POLYMERISED PRODUCT

Linear expansion coefficient, ASTM D696	80. 10 ⁻⁶ K ⁻¹
Thermal conductivity coefficient, ASTM C177	0.1 W.m ⁻¹ .K ⁻¹
Glass transition temperature, ASTM E228	120°C

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ELECTRICAL PROPERTIES OF THE POLYMERISED PRODUCT

Volume Resistivity, ASTMD257	1. 10 ¹⁶ Ω.cm	
Surface resistivity, ASTM C177	1. 10 ¹⁶ Ω.	
Dielectric strength, ASTM D149	25 Kv/mm	
Dielectric constant and loss at 25°C, ASTM D150		C=2.75 and P<0.02 for 0.1, 1 and 10 kHz

MECHANICAL PERFORMANCE AFTER 24 hours

Shearing strength, ASTM D1002, DIN 5328

Blasted steel	26 N/mm (3,800 psi)
Aluminium without oxide	19 N/mm (2,800 psi)
Zinc dichromate	10 N/mm (1,500 psi)
ABS	20 N/mm (3,000 psi)
PVC	20 N/mm (3,000 psi)
Polycarbonate	20 N/mm (3,000 psi)
Phenolic material	15 N/mm (2,200 psi)
Neoprene rubber	15 N/mm (2,200 psi)
Nitrile rubber	15 N/mm (2,200 psi)

Tensile strength, ASTM D2095, DIN 5328

Blasted steel	25 N/mm (3,600 psi)
BUNA N RUBBER	15 N/mm (2,200 psi)

RESISTANCE TO CHEMICAL PRODUCTS, measured after returning to 22°C.

Motor oil at 40°C (1,000 hours)	95% of the initial strength
Leaded petrol at 22°C (1,000 hours)	100% of the initial strength
Ethanol at 22°C (1,000 hours)	100% of the initial strength
Isopropanol at 22°C (1,000 hours)	100% of the initial strength
Air with 95% RH at 40°C (1,000 hours)	40% of the initial strength
Freon TA at 22°C (1,000 hours)	100% of the initial strength

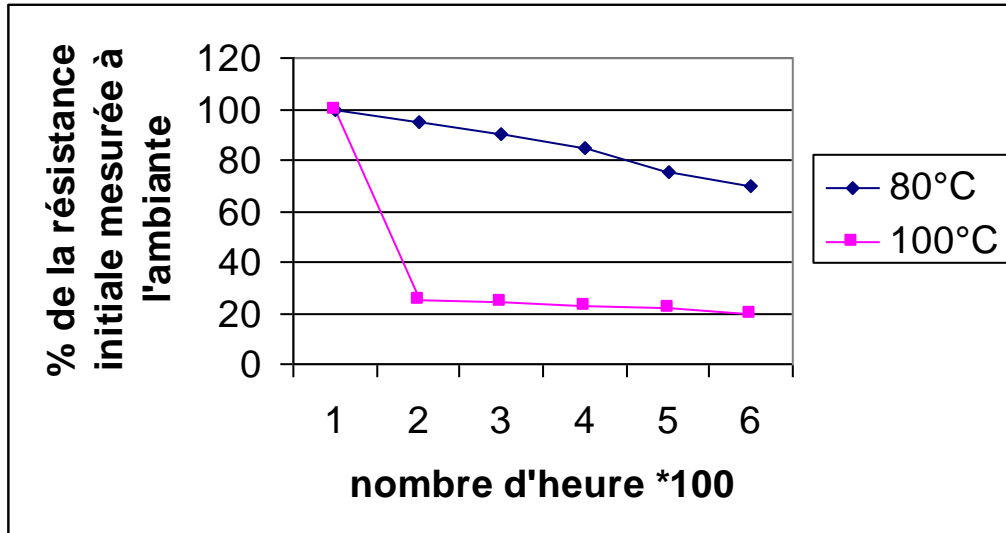
Do not expose to oxygen.

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RESISTANCE TO HEAT AGEING

Ageing at the temperature indicated, measured after return to ambient temperature,
% of the initial strength measured at room temperature



INSTRUCTIONS FOR USE

Ready to use.

For optimal polymerisation (or ideal gluing), the air humidity must be at least 50% where it is being used, and the assembled parts must be clean and dry.

Our 016 - NETTOYANT 3141 reference has been specifically designed for cleaning surfaces before gluing.

To reduce setting time when relative humidity is low or when there is significant clearance between the parts: use ACTIVATEUR 6140. However, this can cause a decrease in mechanical strength.

To improve mechanical strength on certain surfaces: use PRIMAIRE 3440.

To disconnect assembled parts or clean the materials removed: use DECOLLEUR 3720.

Keep cool, preferably in a refrigerator.

PACKAGING

20 g bottle	Ref: 1351 F2	x 6
50 g bottle	Ref: 1351 F3	x 6
500 g bottle	Ref: 1351 F6	x 1

The data contained in this document is based on average values from testing that is updated periodically.

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