



# **C 2040**

## **INSTANT ADHESIVE**



**RUBBER AND O-RINGS**  
**APPROVED FOOD-SAFE NSF P1 – No. 140139**

### **DEFINITION**

Very rapid bonding cyanoacrylate glue for all materials. It is excellent for gluing rubber and plastics.

### **ADVANTAGES**

- High-performance gluing.
- Instant adherence.
- Easy-to-use.
- Clean gluing.
- Significant resistance to wrenching.
- Economical: 1 20g bottle can glue up to 4,000 times. 1 drop = 1 cm<sup>2</sup>, approx.
- Approved for use in food environments.

### **APPLICATION FIELDS**

O-rings, window joints, electrical appliances, rubber stoppers, mechanical uses, electronic uses, optical uses, jewellery, watchmaking, plastics processing, domestic appliances, knick-knacks, dishes. All materials except Teflon, polyethylene and their derivatives.  
Also glues glass, metals and many other materials.  
PVC pipes.  
Food-related industries.

### **TECHNICAL CHARACTERISTICS**

Colour .....	transparent
Density .....	1.05
Viscosity .....	20-40 cP
Flash point .....	>85°C
Operating temperature .....	-60 to +100°C
<b>Setting time:</b>	
• Plastics, glass, rubber .....	2 to 5 seconds
• Metals, wood .....	20 to 40 seconds
• Tensile strength, SBR/SBR .....	200 daN/cm <sup>2</sup> (ASTM D 2095)
• Tensile strength EPDM/EPDM .....	24 daN/cm <sup>2</sup> (ASTM D 2095)
• Resistance to shearing strength, aluminium/aluminium	27.5 MPa
• Resistance to shocks .....	15 daN/cm <sup>2</sup> (ASTM 950)

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#### **Manufacturing site and registered office**

Parc Industriel de la Plaine de l'Ain - 225 allée des Cèdres - 01150 Saint-Vulbas - FRANCE  
Tél. +33 (0)4 74 40 20 25 - Fax +33 (0)4 74 40 20 26 - [www.orapi-maintenance.com](http://www.orapi-maintenance.com)

## SETTING TIME

Setting time depends on the materials, their surface conditions, the backlash between the parts, and relative humidity.

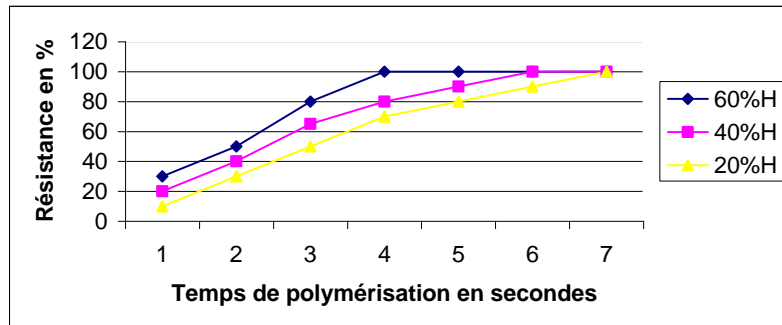
Tests performed at 20°C and 50% relative humidity.

The times given are the times after which shearing strength is 0.1 N/mm<sup>2</sup> (14.5 psi) according to the ASTM D1002 standard.

Comments: Maximum resistance (mechanical and chemical) is obtained after 24 hours of polymerisation. The less the backlash, the faster the adhesion.

ABS .....	5 to 10 seconds
PVC .....	5 to 10 seconds
Glass .....	5 to 15 seconds
Rubber .....	<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

## POLYMERISATION SPEED BASED ON RELATIVE HUMIDITY



## PHYSICAL PROPERTIES OF THE POLYMERISED PRODUCT

Linear expansion coefficient, ASTM D696 .....	80.10 <sup>-6</sup> K <sup>-1</sup>
Thermal conductivity coefficient, ASTM C177 .....	0.1 W.m <sup>-1</sup> .K <sup>-1</sup>
Glass transition temperature, ASTM E228 .....	120°C

## ELECTRICAL PROPERTIES OF THE POLYMERISED PRODUCT

Volume Resistivity, ASTM D257 .....	1.10 <sup>16</sup> Ω.cm
Surface resistivity, ASTM C177 .....	1. 10 <sup>16</sup> Ω.cm
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

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## MECHANICAL PERFORMANCE AFTER 24 hours

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Resistance to shearing strength, ASTM D1002, DIN 5328

Blasted steel .....	26 N/mm (3800 psi)
Aluminium without oxide .....	19 N/mm (2800 psi)
Zinc dichromate .....	10 N/mm (1500 psi)
ABS .....	20 N/mm (3000 psi)
PVC .....	20 N/mm (3000 psi)
Polycarbonate .....	20 N/mm (3000 psi)
Phenolic material .....	15 N/mm (2200 psi)
Neoprene rubber .....	15 N/mm (2200 psi)
Nitrile rubber .....	15 N/mm (2200 psi)

Tensile strength, ASTM D2095, DIN 5328

Blasted steel .....	25 N/mm (3600 psi)
Buna N rubber .....	15 N/mm (2200 psi)

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

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Motor oil at 40°C (1000 hours) .....	95% of initial resistance
Leaded petrol at 22°C (1000 hours) .....	100% of initial resistance
Ethanol at 22°C (1000 hours) .....	100% of initial resistance
Isopropanol at 22°C (1000 hours) .....	100% of initial resistance
Air with 95% RH at 40°C (1000 hours) .....	40% of initial resistance
Freon TA at 22°C (1000 hours) .....	100% of initial resistance

Do not allow to come into contact with oxygen.

## RESISTANCE TO HEAT AGING

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Aging at the temperature indicated, measured after return to room temperature,

## INSTRUCTIONS FOR USE

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Ready to use. For optimal polymerisation (or ideal gluing), the humidity in the air must be less than 50% in the area where it is used, and the assembled parts must be clean and dry.

**016 - ORAPI NETTOYANT 3141** was specially designed for cleaning surfaces before gluing.

To reduce setting time when relative humidity is low or when there is significant backlash between the parts, use **ACTIVATEUR 6140**. This can, however, cause a decrease in mechanical resistance.

To improve mechanical resistance on certain surfaces, use **PRIMAIRE 3440**.

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

## PACKAGING

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5 g bottle	Ref. 1355 F1	x 12
20 g bottle	Ref. 1355 F2	x 6
50 g bottle	Ref. 1355 F3	x 6

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