

VA 2407 Cyanoacrylate Adhesive



universally applicable | strong adhesion | fast curing

WEICON VA 2407 is a colourless and crystal clear curing two-component cyanoacrylate adhesive for bonding a wide variety of materials with and to each other. It adheres very well to many plastics (e.g. polycarbonate), steel, stainless steel, aluminium, ceramics, glass and rubber. The newly developed adhesive combines the advantages of instant adhesives with the process reliability of 2-component adhesives. The high-strength and fast-curing structural adhesive is sandable and paintable after approx. 25 minutes. It is resistant to weathering, many aggressive chemicals, impact stress and vibration. It is temperature-resistant from -20 °C to +120°C (-40 to +248°F). Depending on the geometry of the bond, gaps of up to 5 mm can be covered with VA 2407. Due to its fast and impact-resistant curing, it is particularly suitable for bonding e.g. plastic and rubber. It can also be used for structural adhesive bonding, where a coloured adhesive joint would affect the overall appearance of the component. VA 2407 bonds transparent plastics together, like Plexiglas and other materials, in a clean and visually appealing way. The adhesive is suitable for a wide variety of applications in plastic technology, mechanical construction, model and mould construction, metal construction, ship and boat building, bodywork and vehicle construction, trade fair and exhibition construction and many other areas of industry.

Characteristics

Specific properties	2C Cyanoacrylate
Base	ethyl acrylate
Texture	pasty
Colour	transparent

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Processing

Mixing ratio by weight		4:1
Viscosity	25 °C Cone / Plate	1.000 mPa·s
Density	(+20 °C)	1,1 g/cm³
Gap bridging up to max.		5 mm

Curing

Anfangshaftung in Sekunden (Scherfestigkeit: 0,5 MPa)		
on aluminium		10 - 30 sec.
on ABS untreated		180-240 sec.
on rigid PVC		90-150 sec.
Pot life	at 20 °C, 10 g batch	5 min.
Final strength	(100 % strength)	24 h

Mechanical properties after curing

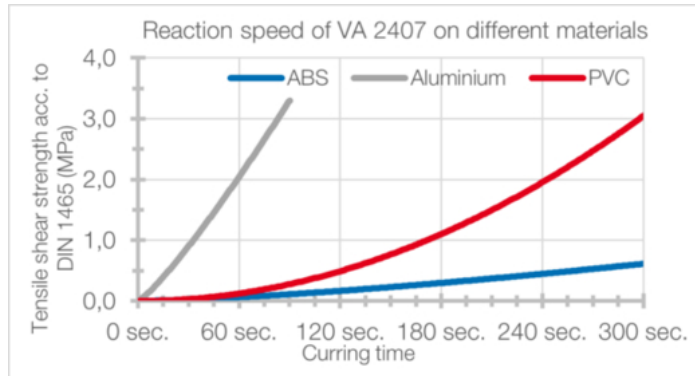
Shear strength according to DIN EN 1465		
Steel sandblasted		16 - 21 MPa
Aluminium sandblasted		10 - 15 MPa
2_Hart-PVC_unvorbehandelt		10-14 MPa
1_ABS_unvorbehandelt		13-15 MPa
PC (polycarbonate)		12 - 17 MPa

Thermal parameters

Temperature resistance		-20 °C to +120 °C
Softening temperature		+150 °C
Flashpoint		+87 °C (+189 °F)
Brechungsindex		~ 1,49 nD20
Thermal expansion coefficient		80 x 10 ⁻⁶ m/(m·K)
Thermal conductivity	DIN EN ISO 22007-4	~0,1 W/m·K

Electrical parameters

Resistance	DIN IEC93	> 10 ¹⁵ Ω·cm
Dielectric strength		~25 kV/mm



Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Surface pre-treatment

For a flawless adhesive bond, surfaces must be clean and dry (clean and degrease with WEICON Surface Cleaner). Smooth surfaces should be roughened mechanically. To improve the adhesion of plastics difficult to bond (e.g. PE, PP, POM, PTFE), thermoplastic elastomers (TPE) and silicones, WEICON CA-Primer can be applied to the bonding surface.

Note

The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.

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Storage

WEICON VA 2407 has a shelf life of at least 9 months, when stored in unopened condition at room temperature (+18 °C to +25 °C) in a dry and possibly dark space. Temperatures of approx. +5 °C will increase the shelf life to 12 months.

Scope of delivery

Mixing Nozzle VA 2407 | Adhesive

Accessories

- 11207150 Surface Cleaner, 150 ml, transparent
- 11207400 Surface Cleaner, 400 ml, transparent
- 12450010 CA Primer for Polyolefines, 10 ml
- 12450100 CA Primer for Polyolefines, 100 ml
- 12470012 CA-Remover, 12 ml
- 12470030 CA-Remover, 30 ml
- 10953001 Processing spatula, 1 PCE
- 10663045 Dosing gun D50 10:1, 1 PCE
- 10663110 Special Piston, 1 PCE
- 10650031 Mixing Nozzle VA 2407 10g
- 10660002 Mixing Nozzle VA 2407 50g

Available sizes

- 12800010 VA 2407 Cyanoacrylate Adhesive, 10 g, transparent
- 12800050 VA 2407 Cyanoacrylate Adhesive, 50 g, transparent

Conversion table

$(^{\circ}\text{C} \times 1,8) + 32 = ^{\circ}\text{F}$	$\text{Nm} \times 8,851 = \text{lb}\cdot\text{in}$
$\text{mm}/25,4 = \text{inch}$	$\text{Nm} \times 0,738 = \text{lb}\cdot\text{ft}$
$\mu\text{m}/25,4 = \text{mil}$	$\text{Nm} \times 141,62 = \text{oz}\cdot\text{in}$
$\text{N} \times 0,225 = \text{lb}$	$\text{mPa}\cdot\text{s} = \text{cP}$
$\text{N}/\text{mm}^2 \times 145 = \text{psi}$	$\text{N}/\text{cm} \times 0,571 = \text{lb}/\text{in}$
$\text{MPa} \times 145 = \text{psi}$	$\text{kV}/\text{mm} \times 25,4 = \text{V}/\text{mil}$

To the product detail page:



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