## WEICON VA 8406 Cyanoacrylate Adhesive



#### Cyanoacrylate adhesive for rubber and plastic | ISEGAcertified | low viscosity | very fast curing

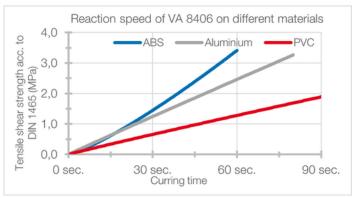
WEICON Contact VA 8406 is suitable for the fast fixing and bonding of various rubber materials, such as solid rubber or cellular rubber, plastics and EPDM elastomers. In combination with WEICON CA-Primer, VA 8406 can also be used for polyolefines (PE-polyethylene, PP-polypropylene) and for PTFE and silicones.

Characteristics		
Base		ethyl
Texture		liquid
Colour after curing		colourless
Silicone-free		yes
Processing		
Processing temper	ature	+15 °C to +40 °C
Relative air humidit	ty	40% - 70%
Viscosity	25 °C Cone / Plate	20 -50 mPa⋅s
Density	(+20 °C)	1,1 g/cm <sup>3</sup>
Gap bridging up to	max.	0,1 mm
Curing		
Initial adhesion in s	econds (shear strength: 0,5	MPa)
- measure	ed at	23 °C and 50 % relative humidity
on alumin	ium sandblasted	10-20 sec.
on ABS u	ntreated	10-15 sec.
on rigid P	VC	20-40 sec.
Final strength	(100 % strength)	24 h
Mechanical prope	erties after curing	
Shear strength acc	ording to DIN EN 1465	
Steel sandblasted		12-22 MPa
Aluminiun	n sandblasted	8-16 MPa
Rigid untr	eated PVC	8-14 MPa
Untreated	ABS	6-13 MPa
PC (polyc	arbonate)	6-13 MPa

1-Component Adhesives and Sealants

# Contact Cyanoacrylate Adhesives

Thermal parameters					
Temperature resistance		-50°C to +80°C, briefly up to +100°C			
Softening temperature		+150 °C			
Refraction index		~ 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			
Approvals / Guidelines					
ISEGA		EG 1935/2004LFGB §§ 30&31			
ISSA Code		75.530.08			
MIL-Spec	comply with	MIL-A-46050C Type II Class 1			



#### 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

The successful application of WEICON Contact Cyanoacrylate Adhesives depends on the thorough preparation of the surfaces. This is the most important factor for overall success. Dust, dirt and moisture or wetness have a negative impact on the adhesion.

Therefore, before processing WEICON Contact Cyanoacrylate Adhesives, the following points must be observed: For a flawless adhesive bond, adhesive 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 that are difficult to bond (e.g. PE, PP, POM, PTFE), thermoplastic elastomers (TPE) and silicones, WEICON CA-Primer can be applied to the bonding surface.

#### **Contact Primer for Polyolefines**

Without pre-treatment, many plastics cannot or can only be bonded under certain conditions. When these plastics are pre-treated with WEICON Contact Primer, their surface structure changes. This makes it possible to bond plastics

Note

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that are otherwise difficult to bond, e.g. polyethylene (PE) and polypropylene (PP) from the polyolefine group. Even modern thermoplastic elastomers (TPE), PTFE and related plastics as well as silicones can be bonded, when pre-treated with WEICON Contact Primer.

## Processing

The products are supplied ready for use. Depending on the form of delivery, they can be processed by hand directly from the container or with appropriate dosing equipment. Apply WEICON Contact Cyanoacrylate Adhesive to just one of the bonding surfaces. The layer thickness when applying the adhesive should be between min. 0.05 mm and max. 0.2 mm, as otherwise complete curing cannot be guaranteed. For large-surface bondings, WEICON Contact Cyanoacrylate Adhesives should be applied in dots in order to prevent inner tensions. WEICON Contact Cyanoacrylate Adhesives are very economical. One drop is sufficient for an adhesive area of 3 to 5 cm<sup>2</sup>.

## Curing

After applying the product, the parts to be bonded must be joined quickly and fixed if possible, since the curing of the products has already started as a result of the humidity in the ambient air or condensed on the bonding surfaces. The components should be bonded at a relative air humidity level between 40 % and 70 %. Below 40 %, the curing process is slowed down significantly or even prevented altogether. At an air humidity level above 70 % or with strongly alkaline substrates (e.g. glasses), there is a risk of shock curing. In these cases, certain materials show a drop in strength by 10 % to 15 % due to tensions in the adhesive layer. Alkaline surfaces (pH value >7) accelerate the curing process, acidic surfaces (pH value <7) slow down the curing process and can prevent polymerisation altogether in extreme cases. If curing is delayed or disturbed by factors such as a too wide adhesive gap, porous or acidic surface, the use of WEICON Contact Activator is recommended.

## WEICON Contact Activator

The activator speeds up the curing process of WEICON Contact Cyanoacrylate Adhesives. When applied to absorbing surfaces, e.g. wood or foam etc., and all chemicallytreated surfaces, e.g. zinc galvanized metals etc., the activator's effectiveness lasts approx. one minute. On nonabsorbent surfaces, the activator's effectiveness lasts up to approx. 12 hours. Use is recommendable with:

- highly viscous WEICON Contact types
- · large thickness of the adhesive layer
- · absorbing and porous surfaces

1-Component Adhesives and Sealants

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# Contact Cyanoacrylate Adhesives

• passive materials (alkaline surfaces, like for example zinccoated metal parts)

• disadvantageous environmental conditions (low temperatures, low air humidity < 30 %).

#### Storage

WEICON Contact Cyanoacrylate Adhesives have 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 dark space. Temperatures of approx. +5 °C will increase the shelf life to 12 months.

## Scope of delivery

Adhesive

#### Accessories

11207150 11207400 12500150 12505150 12450100 12450100 12955170 12955175 12650030 12651030 12470012 12470012	Surface Cleaner, 150 ml, transparent Surface Cleaner, 400 ml, transparent CA-Activator Spray, 150 ml CA-Activator Spray AC, 150 ml CA Primer for Polyolefines, 10 ml CA Primer for Polyolefines, 100 ml Dosing Tip, 1 PCE Dosing Tip, 1 PCE Contact Filler Contact Filler, 30 g, transparent 30 g, transparent Contact Filler Contact Filler, 30 g, black 30 g, black CA-Remover, 12 ml CA-Remover, 30 ml			
10953001	Processing Spatula, 1 PCE			
Available sizes				
12204012	WEICON VA 8406			

12204012	
12204030	Cyanoacrylate Adhesive, 12 g WEICON VA 8406
12204060	Cyanoacrylate Adhesive, 30 g WEICON VA 8406
12204500	Cyanoacrylate Adhesive, 60 g WEICON VA 8406
	Cyanoacrylate Adhesive, 0,5 kg

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## **Conversion table**

(°C x 1.8) + 32 = °F		
mm/25.4 = inch		
µm/25.4 = mil		
N x 0.225 = lb		
$N/mm^2 \times 145 = psi$		
MPa x 145 = psi		

Nm x 8.851 = lb·in Nm x 0.738 = lb·ft Nm x 141.62 = oz∙in  $mPa \cdot s = cP$  $N/cm \ge 0.571 = Ib/in$  $kV/mm \times 25.4 = V/mil$ 

To the product detail page:



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1-Component Adhesives and Sealants Contact Cyanoacrylate Adhesives