VA 8312 Cyanoacrylate

Adhesive

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1-Component Adhesives and Sealants

Contact Cyanoacrylate Adhesives



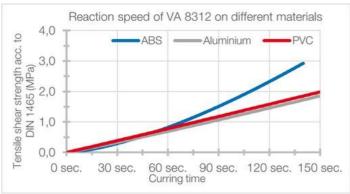
Cyanoacrylate adhesive for rubber and plastic | low viscosity | very fast curing | ISEGA-certified

WEICON Contact VA 8312 is suitable for the bonding of various rubber materials, such as solid rubber or cellular rubber, plastics and EDPM elastomers. In combination with WEICON CA-Primer, VA 8312 can also be used for polyolefines (PE-polyethylene, PP-polypropylene). In combination with WEICON Contact Filler, VA 8312 is suitable for the instant bonding and filling of cracks, clefts, holes and uneven surfaces.

Characteristics

Dase		Guiyi
Texture		liquid
Texture		colourless, clear substance
Colour after curing		colourless
Silicone-free		yes
Processing		
Processing temperature		+15 °C to +40 °C
Relative air humidity		40% - 70%
Viscosity		20 -40 mPa·s
Density	(+20 °C)	1,1 g/cm³
Gap bridging up to max.		0,1 mm
Curing		
Initial adhesion	in seconds (shear strength:	0,5 MPa)
- mea	sured at	23 °C and 50 % relative humidity
on aluminium sandblasted		50-70 sec.

Mechanical propertie	es after curing			
Shear strength accord	ling to DIN EN 1465			
Steel sandbla	asted	10-20 MPa		
Aluminium sa	andblasted	7-14 MPa		
Rigid untreat	ed PVC	8-13 MPa		
Untreated AE	BS	6-12 MPa		
PC (polycarb	onate)	6-13 MPa		
Thermal parameters				
Temperature resistanc	е	-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 / Guideline	es			
ISSA Code		75.629.04/05/06/17		
IMPA Code		815241/42/43/44		
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 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.

WEICON before processing 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.

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.

on ABS untreated

(100 % strength)

on rigid PVC

Final strength

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ethyl

30-60 sec.

40-70 sec.

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Adhesive

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1-Component Adhesives and Sealants

VA 8312 Cyanoacrylate Contact Cyanoacrylate Adhesives

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 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 cm².

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

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- 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

10024317 10024313 10000282	Surface Cleaner, 150 ml, transparent Surface Cleaner, 400 ml, transparent
	CA-Activator Spray, 150 ml
10033805	CA-Activator Spray AC, 150 ml
10000275	CA Primer for Polyolefines, 10 ml
10000278	CA Primer for Polyolefines, 100 ml
10068262	Dosing Tip, 1 PCE
10068261	Dosing Tip, 1 PCE
10012382	Contact Filler Contact Filler, 30 g, transparent
	30 g, transparent
10063106	Contact Filler Contact Filler, 30 g, black 30 g,
	black
10059034	CA-Remover, 12 ml
10051358	CA-Remover, 30 ml
10010887	Processing Spatula, 1 PCE

Available sizes

10018863	VA 8312 Cyanoacrylate Adhesive, 12 g
10016432	VA 8312 Cyanoacrylate Adhesive, 30 g
10019793	VA 8312 Cyanoacrylate Adhesive, 60 g
10000242	VA 8312 Cyanoacrylate Adhesive, 0,5 kg

Conversion table

(°C x 1.8) + 32 = °F	Nm x 8.851 = lb⋅in
mm/25.4 = inch	$Nm \times 0.738 = Ib \cdot ft$
μ m/25.4 = mil	$Nm \times 141.62 = oz \cdot in$
N x 0.225 = lb	mPa·s = cP
$N/mm^2 x 145 = psi$	$N/cm \times 0.571 = Ib/in$
MPa x 145 = psi	$kV/mm \times 25.4 = V/mil$

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