

Contact Cyanoacrylate Adhesives

VA 20 Cyanoacrylate Adhesive



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

WEICON Contact VA 20 is suitable for the bonding of rubber and plastics and also for precisely fitted metal/plastic joints. Contact VA 20 can be used in many industrial areas.

Characteristics

Base	ethyl
Texture	liquid
Colour after curing	colourless
Silicone-free	yes
Minimum shelf life	at room temperature 9 mon.
Minimum shelf life	from +2 °C to +7 °C 12 Mon.
- measured at	23 °C and 50 % relative humidity

Processing

Processing temperature	+15 °C to +40 °C
Relative air humidity	40% - 70%
Viscosity	<20
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)	
- measured at	23 °C and 50 % relative humidity
on aluminium sandblasted	~2 sec.
on ABS untreated	~7 sec.
on rigid PVC	~10 sec.
Final strength (100 % strength)	24 h

Mechanical properties after curing

Shear strength according to DIN EN 1465	
Steel sandblasted	9-19 MPa
Aluminium sandblasted	5-14 MPa
Rigid untreated PVC	8-12 MPa
Untreated ABS	6-11 MPa
PC (polycarbonate)	6-12 MPa

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

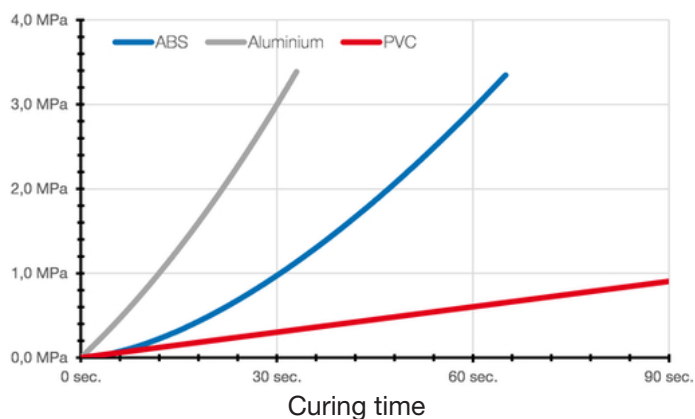
Approvals / Guidelines

ISEGA	EG 1935/2004LFGB §§ 30&31
ISSA Code	75.530.10
IMPA Code	812925
MIL-Spec	complies with MIL-A-46050C

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.

Reaction rate of various materials



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

Note

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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.

Application

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 chemically-treated surfaces, e.g. zinc galvanized metals etc., the activator's effectiveness lasts approx. one minute. On non-absorbent surfaces, the activator's effectiveness lasts up to approx. 12 hours.

Use is recommendable with:

- highly viscous WEICON Contact types

Contact Cyanoacrylate Adhesives

- large thickness of the adhesive layer
- absorbing and porous surfaces
- passive materials (alkaline surfaces, like for example zinc-coated metal parts)
- disadvantageous environmental conditions (low temperatures, low air humidity < 30 %).

Storage

Store WEICON Contact Cyanoacrylate adhesives unopened at room temperature in a dry place, avoiding direct sunlight. Storage in a refrigerated environment (+2 °C bis +7 °C) increases the shelf life.

Scope of delivery

Adhesive

Accessories

10024317	Surface Cleaner, 150 ml, transparent
10024313	Surface Cleaner, 400 ml, transparent
10000282	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

10000215	VA 20 Cyanoacrylate Adhesive, 0,5 kg
10016618	VA 20 Cyanoacrylate Adhesive, 30 g
10018860	VA 20 Cyanoacrylate Adhesive, 12 g
10019781	VA 20 Cyanoacrylate Adhesive, 60 g

Conversion table

(°C x 1.8) + 32 = °F	Nm x 8.851 = lb·in
mm/25.4 = inch	Nm x 0.738 = lb·ft
µm/25.4 = mil	Nm x 141.62 = oz·in
N x 0.225 = lb	mPa·s = cP
N/mm² x 145 = psi	N/cm x 0.571 = lb/in
MPa x 145 = psi	kV/mm x 25.4 = V/mil

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