

Contact VA 1403



Cyanoacrylate Adhesive for special requirements
high viscosity, low odour and "blooming"
slow-curing

WEICON Contact VA 1403 is highly viscous (1100-1800 mPa·s), low in odour when processing and has a reduced "blooming" effect. It hardens slowly and is less susceptible to moisture effects after curing.

VA 1403 is suited for the clean and visually attractive bonding of the most diverse products.

Technical data

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| Ester type | Alkoxy |
| Condition / nature | colourless, clear liquid |
| Viscosity at +20 °C Brookfield | 1.100-1.800 mPa·s |
| Max. gap covering | 0,2 mm |
| Specific gravity at +20 °C | 1,10 g/cm ³ |
| Initial adhesion on Aluminium | 90-120 sec. |
| Initial adhesion on Nora test rubber | 5-30 sec. |
| Initial adhesion on Rigid PVC | 10-120 sec. |
| Final strength after | 24 h |
| Temperature resistance | -50 bis +80 Erweichungstemp. +150 °C |

Pretreatment of the surface

To ensure a perfect bonding, the surfaces to be joined must be clean and dry (to clean and degrease use WEICON Surface Cleaner). Smooth surfaces should be mechanically roughened. To improve the adhesion on difficult to bond plastics (e.g. PE, PP, POM, PTFE), thermoplastic elastomers (TPE) and Silicone, WEICON CA-Primer can be applied on the surface.

Processing

- Apply WEICON Contact Cyanoacrylate Adhesive only on one of the surfaces to be bonded.
- The bond line should be between 0.05 mm and max. 0.2 mm (acc. to type) in thickness. Otherwise complete hardening cannot be guaranteed.
- For bonding large surfaces WEICON Contact Cyanoacrylate Adhesive should be applied drop by drop to avoid inner tensions.
- WEICON Contact Cyanoacrylate Adhesives are very economical. One drop is sufficient to cover approx. 3 - 5 cm² of bonded surface.
- The parts to be joined should be bonded in an atmosphere of 40 - 80 % relative humidity. In conditions of below 40%, the cure will be

considerably slowed or even inhibited. With a relative air humidity of more than 80% or with basic substrates (e.g. glass), shock-curing can occur. In such cases, some materials show a drop in bond strength of 10 - 15 %, due to inner tensions in the bond line.

- Basic-reacting surfaces (pH-value >7) will speed up the cure whereas acidic-reacting surfaces will retard and, under extreme conditions, completely inhibit the polymerization.

Storage

WEICON Contact Cyanoacrylate Adhesives can be stored in the unopened original container for at least 9 months at room temperature (+ 18 °C to + 25 °C). Keep away from moisture and direct sunlight. At temperatures of about + 5 °C, the shelf life can be extended up to 12 months.

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.

Health and Safety

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

WEICON GmbH & Co. KG (Headquarter)

Königsberger Str. 255 · DE-48157 Münster
P.O. Box 84 60 · DE-48045 Münster
Germany

Tel. +49 (0) 251 / 93 22-0
Fax +49 (0) 251 / 93 22-244
Fax +49 (0) 251 / 93 22-233 Export
www.weicon.de · info@weicon.de

WEICON Middle East L.L.C.

Jebel Ali Ind Area 3 · P.O. Box 118 216
Dubai · U.A.E

Phone +971 4 880 25 05
Fax +971 4 880 25 09
Mobile +971 50 545 99 83
www.weicon.ae · info@weicon.ae

WEICON Inc.

20 Steckle Place · Unit 20
Kitchener · Ontario · N2E 2C3
Canada

Phone +1 519 896 5252
Fax +1 519 896 5254
Cell +1 519 590 5168
www.weicon.ca · info@weicon.ca

WEICON Kimya Sanayi Tic. Ltd. Şti.

Yenibosna Mahallesi Yalçın Koreş Caddesi
Arifağa Sokak No: 29 Kat: 3
34530 Yenibosna – İstanbul Turkey
www.weicon.biz.tr · info@weicon.biz.tr

WEICON Romania SRL

Str. Podului Nr.1
547176 Budiu Mic (Targu Mures)
www.weicon.com · office@weicon.com