VA 1460 Cyanoacrylate

Adhesive

WEICON

-50°C to +80°C, briefly up to +100°C

+150 °C

~ 1,49 nD20

~0,1 W/m·K

>10^15 Ω·cm

~ 25 kV/mm

~ 80 x 10^-6 m/(m·K)

1-Component Adhesives and Sealants

Contact Cyanoacrylate Adhesives



Cyanoacrylate adhesive for special requirements | medium viscosity | slow-curing | odourless, little to no blooming

It is less susceptible to moisture effects after curing. WEICON Contact VA 1460 is suitable for the bonding of many different materials. WEICON Contact VA 1460 can be used in numerous industrial applications.

Characteristics

Base

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	120 -200 mPa⋅s
Density (+20 °C)	1,1 g/cm ³
Gap bridging up to max.	0,15 mm
Curing	
Initial adhesias in accords (about atropath, O.E.N.	MPa)
Initial adhesion in seconds (shear strength: 0,5 M	vira)
- measured at	23 °C and 50 % relative humidity
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- measured at	23 °C and 50 % relative humidity
measured at on aluminium sandblasted	23 °C and 50 % relative humidity 10-12 min.
- measured at on aluminium sandblasted on ABS untreated	23 °C and 50 % relative humidity 10-12 min. 180-200 sec.
- measured at on aluminium sandblasted on ABS untreated on rigid PVC	23 °C and 50 % relative humidity 10-12 min. 180-200 sec. 6-8 min.
- measured at on aluminium sandblasted on ABS untreated on rigid PVC Final strength (100 % strength)	23 °C and 50 % relative humidity 10-12 min. 180-200 sec. 6-8 min.
- measured at on aluminium sandblasted on ABS untreated on rigid PVC Final strength (100 % strength) Mechanical properties after curing	23 °C and 50 % relative humidity 10-12 min. 180-200 sec. 6-8 min.
- measured at on aluminium sandblasted on ABS untreated on rigid PVC Final strength (100 % strength) Mechanical properties after curing Shear strength according to DIN EN 1465	23 °C and 50 % relative humidity 10-12 min. 180-200 sec. 6-8 min. 24 h
- measured at on aluminium sandblasted on ABS untreated on rigid PVC Final strength (100 % strength) Mechanical properties after curing Shear strength according to DIN EN 1465 Steel sandblasted	23 °C and 50 % relative humidity 10-12 min. 180-200 sec. 6-8 min. 24 h
- measured at on aluminium sandblasted on ABS untreated on rigid PVC Final strength (100 % strength) Mechanical properties after curing Shear strength according to DIN EN 1465 Steel sandblasted Aluminium sandblasted	23 °C and 50 % relative humidity 10-12 min. 180-200 sec. 6-8 min. 24 h

	Reaction speed of VA 1460 on different materials
cc. to	4,0 ABS —Aluminium —PVC
Tensile shear strength acc. to DIN 1465 (MPa)	3,0
ear stre	2,0
sile she	1,0
Ten	0,0 0 min. 2 min. 4 min. 6 min. 8 min. 10 min. 12 min Curring time

Instructions for use

Thermal parameters

Refraction index

Resistance

Dielectric strength

Temperature resistance Softening temperature

Electrical parameters

Thermal expansion coefficient

Thermal conductivity DIN EN ISO 22007-4

DIN IEC93

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 WEICON Contact processing Cvanoacrylate 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 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

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 requested properties are recommended. A claim cannot be derived from them.

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WEICON

1-Component Adhesives and Sealants

VA 1460 Cyanoacrylate Adhesive

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 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
- large thickness of the adhesive layer
- · absorbing and porous surfaces
- passive materials (alkaline surfaces, like for example zinccoated metal parts)

Contact Cyanoacrylate Adhesives

• 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	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 PCÉ
10068261	Dosing Tip, 1 PCE
10012382	Contact Filler, 30 g, transparent
10063106	Contact Filler, 30 g, black
10059034	CA-Remover, 12 ml
10051358	CA-Remover, 30 ml
10010887	Processing Spatula, 1 PCE

Available sizes

10000247 VA 1460 Cyanoacrylate Adhesive, 0,5 kg

Conversion table

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

To the product detail



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