

Technical Data Sheet

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Summary

Weicon VA 8406 Industrial Super Glue is a very fast curing, high quality grade of cyanoacrylate contact adhesive. This grade creates high strength bonds, has a low viscosity and is compatible with a variety of materials including plastics, rubbers, metals, glass, ceramic, wood and more.

VA 8406 Industrial Super Glue is able to withstand temperatures up to 80°C and is a clear, colourless liquid.

Applications

- Bonding and fixing rubber seals and gaskets
- Making rubber O rings
- Bonding of plastics, rubbers, corks or metal parts
- Securing and fixing components in electronics
- Model making, home repairs, and DIY





View This Product

General Surface Compatibility

Metal	+
Plastic*	++
Rubber	++
EPDM Elastomers	++
Wood	-
Balsa-Wood	+
Glass / Ceramic	+
Leather	-

++ = Highly Compatible + = Compatible - = Not Compatible *Refer to below chart for more information.

Combined Tension and Shear Resistance

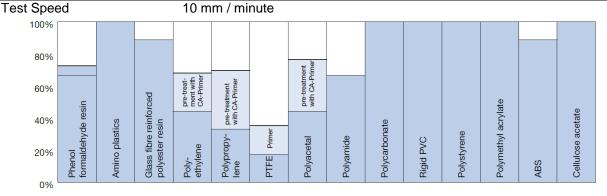
Test Specimen (DIN 53281) 100mm / 25mm x 1.5mm

Adhesive Weicon Contact Adhesive VA 8406

Overlapping 12mm

Pre-Treatment Cleaned with Weicon Surface Cleaner and surface is made coarse

Bonding Conditions Normal Climate (DIN 50014): +23°C and 50% relative humidity



Importan

The values listed here and the information presented should not be treated as a substitute for specific technical advice. We cannot warrant the products performance or suitability for particular applications.

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Properties

Ester Ty	ре	Ethyl
Condition / Nature		Colourless, Clear Liquid
Viscosity at 20°C Brookfield		20-50 MPa
	n Gap Covering	0.1mm
Power**		0.111111
Specific Gravity at 20°C		1.05 g/cm ³
Flash Point According To		87°C
Abel-Pensky DIN 55213		
	hesion on Aluminium*	2-10 Seconds
Initial Adhesion on		<5 Seconds
Nora Test Rubber*		
	hesion on Rigid PVC*	2-10 Seconds
Final Str	ength After	24 Hours
	Sand-Blasted Steel	22 N/mm²
_	Sand-Blasted	16 N/mm²
g _	Aluminium	
je ∈	Rigid PVC	14 N/mm²
st o	ABS	13 N/mm²
ear 3. T 283	PC	13 N/mm²
Shear Strength Acc. To DIN 53283	NBR	>8 N/mm² (bonding exceeds
		strength of substrate)
	ature Resistance	-50°C to +80°C
Short-Term Temperature +100		+100°C
Resistance		45000
Squatting Temperature		+150°C
Refractive Index 1.49 n ^{D20} (Similar to Glass		1.49 n ^{b20} (Similar to Glass)
Linear Thermal Expansion		
Coefficient ISO 11359 / ASTM D 696 (K ⁻¹)		80 x 10 ⁻⁶
Specific Forward Resistance DIN 53482* / ASTM D 257		>10 ¹⁵ Ω mm
		_
Dielectric Strength DIN 53481* / ASTM D 149		25 kV/mm
Thermal Conductivity		
ISO 8894-2 / ASTM C 177		0.1 W/m·K
100 0007 27 AOTIWI O 111		

Solubility

Dimethyl Formamide, Dimethyl Sulfoxide, Acetonitrile, Alkali. Swelling is possible after long-term storage in ethyl acetate, acetone and methylene chloride.

^{*}Achieved in normal climate (DIN 50014) +23°C and 50% relative humidity. Within the given time period, handling strength can be reached.
**These details are dependent on the type of material to be bonded and its

properties.



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Preparation of the Surface

To achieve the best possible results, the surfaces being bonded must be clean and dry. Smooth surfaces should be roughened whenever possible (e.g. by sanding) as this increases the available surface area for the adhesive to bond with.

Application

Apply Weicon VA 8406 Industrial Super Glue to one of the surfaces being joined. The bond line (or gap between the parts being bonded) should be between 0.05mm and 0.1mm. Outside of this, complete curing may not be achieved.

If bonding larger surface areas, Weicon Super Glues should be applied drop by drop to minimise the risk of inner tension of the adhesive. All of these glues are very economical as a single drop is sufficient for covering about 3-5cm² of surface area.

VA 8406 should be used in an environment with 40-80% relative humidity if at all possible. In conditions below 40%, the cure will be substantially slowed or even inhibited. With a relative humidity greater than 80%, of when bonding basic substrates such as glass, shock-curing can occur. In such situations, some materials exhibit a drop in bond strength of approximately 10-15% due to inner tensions created in the bonding line.

Basic reacting surfaces (with pH values >7) will cure faster while acidic reacting surfaces will slow, and under certain conditions, completely inhibit polymerisation.

Physiological properties / health and safety

Physiologically, all Weicon Cyanoacrylate Adhesives may be considered essentially harmless. However, it is prudent to ensure that there is sufficient ventilation of work areas to cope with vapours released by the adhesive. Vapours released from contact adhesives may cause irritation to mucus membranes and the eyes. Avoid contact with skin and eyes (wear gloves and protective goggles). The use of Weicon Hand Protective Foam will also assist with preventing skin irritation and hand cleaning problems. For more information on this topic, please refer to the appropriate SDS.

Storage

Weicon VA 8406 Industrial Super Glue should always be stored in a cool, dry and dark area. The shelf life is at least 9 months if stored at room temperature. If stored at 5°C (in a refrigerator) the shelf life can be extended to over 12 months.

Availability

Weicon VA 8406 Industrial Super Glue is available from Swift Supplies in 12gm and 30gm Pens.

These pens are a unique feature of our Weicon Adhesive range that allows for natural, accurate and easy application of the adhesive.