Silicone A



Acetoxy curing | fungicidal

WEICON Silicone A is solvent-free, acetoxy-curing, strong, permanently elastic, resistant to ageing and chemicals, temperature-resistant up to +180 °C (+356 °F), extremely elastic (breaking elongation >700%) and can be used universally. Silicone A adheres very well to steel, aluminium, glass, ceramics, and many other materials.

Silicone A can be used in machine and system construction, ventilation and air conditioning systems, in the energy and electrical industry, in exhibition construction and shopfitting and in many other industrial applications.

Characteristics		
Base		1-C. polysiloxane (acetate)
Texture		pasty
Cure type		moisture-curing
Can be painted		no
Stability/run-off	ASTM D 2202	1.0 mm
Building material class	DIN 4102	B 2
Minimum shelf life	Presspack / Green Tube	18 mon.
Processing		
Curing condition		from +5°C to +40°C and 30% to 95% rel. air humidity
Curing speed	in the first 24 h	2 - 3 mm
Viscosity		4.210 Pa·s (0,5 1/s) 110 Pa·s (50 1/s)
Density		1,03 g/cm³
Max. sealing joint width		25 mm
Gap bridging up to max.		5 mm
Curing		
Skin-over time		15 min.

Mechanical properties after curing		
Tensile strength	ISO 37	1,4 N/mm²
Elongation at break (tensile)	ISO 37, S3A	700 %
Elongation at 100 %	ISO 37 S3A	0,3 N/mm²
Movement absorption max.		25 %
Hardness (Shore A)	DIN ISO 7619	20±5
Volume change	DIN 52451	< -6 %
Thermal parameters		
Temperature resistance		-40°C to +180°C
Thermal conductivity		0,2 W/m·K
Approvals / Guidelines		
ISSA Code		75.628.28
IMPA Code		815207
MIL-Spec	complies with	MIL-A-46106B Group I Typ 1

Surface Pre-Treatment

Surfaces must be clean and free of grease. Many surface soilings, such as oil, grease, dust and dirt can be removed with WEICON Surface Cleaner. For heavily soiled metal surfaces, we recommend Cleaner Spray S; for removing old colour residues or adhesive residues, WEICON Sealant and Adhesive Remover is ideal. Most materials can be bonded to and among each other. For certain materials or special requirements, we recommend the use of a bonding agent (primer). Mechanical surface pre-treatment e.g. by grinding or sanding can also improve the adhesion considerably.

Application

Processing Cartridge gun for 310 ml cartridges, compressed air gun, we recommend a version with piston rod (WEICON Compressed Air Cartridge Gun), automatic dosing systems. Processing tube (only transparent) Squeeze out by hand Close tube again immediately after use, opened tubes should be used up as quickly as possible. Joining the components In order to guarantee and ideal wetting, the bonding parts need to be joined, before the adhesive skins over (skin-over time).

Storage

Store in the unopened original container at room temperature. Avoid sources of heat and direct sunlight.

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.

Accessories

10025241	V-Joint Nozzle, 1 PCE
10020751	Cartridge Gun Special, 1 PCE
10000441	Cartridge Gun, 1 PCE
10101992	Clip Nozzle Green Tube, 1 PCE, transparent
10059792	Pressure gun Airflow 3, 1 PCE

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.

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Silicone A

Available sizes

10000408 Silicone A, 85 ml, transparent
10104900 Silicone A, 280 ml (plastic bag), grey
10104903 Silicone A, 280 ml (Green Tube), grey
10104906 Silicone A, 280 ml (Set), grey
10104910 Silicone A, 280 ml (plastic bag), white
10104913 Silicone A, 280 ml (Green Tube), white
10104916 Silicone A, 280 ml (Set), white
10104921 Silicone A, 280 ml (plastic bag), transparent
10104924 Silicone A, 280 ml (Green Tube), transparent
10104927 Silicone A, 280 ml (Set), transparent
10104930 Silicone A, 280 ml (plastic bag), black
10104933 Silicone A, 280 ml (Green Tube), black
10104936 Silicone A, 280 ml (Set), black

To the product detail page:

Chemical resistance after curing* (Excerpt)

Acetaldehyde	-	Methanol	o
Acetone	o	Methyl ethyl ketone (MEK)	o
Formic acid >10 % (methanoic acid)	o	Lactic acid 40 %	+
Ammonia 10 %	+	Engine oil min./synth.	o
Ammonia, anhydrous	-	Sodium carbonate (soda)	+
Aniline	-	Sodium hydroxide solution 10 %	o
Petrol (92-100 octane)	-	Heating oil, diesel	-
Acetic acid 10 %	+	Phosphoric acid 5 %	o
Acetic anhydride	-	Nitric acid <5%	o
Ethanol	+	Concentrated hydrochloric acid	-
Ethylene glycol	+	Hydrochloric acid <10 %	o
Antifreeze	+	Salt water / Sea water	+
Gear oil	-	Sulphuric acid 10 %	+
Glycerine / Glycol	+	Concentrated sulphuric acid	-
Hexane	-	Silver nitrate	+
Hydraulic oil	o	Cooking oil / vegetable oil	+
Isopropanol	+	Toluene	-
Potassium hydroxide 10 %	+	Water	+
Potassium hydroxide 20 %	-	Tartaric acid	+
Potassium salt dry	+	Xylene	-
Coolant, aq.	+	Citric acid 10 %	+

+ = resistant 0 = for a limited time (preliminary tests or resistance tests are recommended) - = not resistant *Storage was carried out at a chemical temperature of +20°C.

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