Elastic adhesives and sealants
Silicones

Silicone LP



Acetoxy curing | drinking water approval

WEICON Silicone LP is an acetoxy curing and permanently elastic adhesive and sealant. It is resistant to chemicals, ageing, weathering and UV radiation and has a high temperature resistance up to +180 °C (+365 °F). It adheres very well to steel, aluminium, glass, plastics and many other materials.

Silicone LP was developed specially for use in sensitive areas. It can be used as sealant in the food and drinking water sector, for example in dairies, slaughterhouses, in the food and beverage production or in canteen kitchens.

Tested by the Ruhr Region Institute of Hygiene ("Hygiene-Institut des Ruhrgebiets") according to the Guideline for Hygienic Assessment of Organic Materials in Contact with Drinking Water (KTW Guideline) by the Federal Environment Agency.

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	at room temperature	18 mon.

Processing

Curing condition		from +5°C to +40°C and 30% to 95% relative air humidity
Curing speed	in the first 24 h	2-3 mm
Density		1,0 g/cm³
Max. sealing joint width		25 mm
Gap bridging up to max.		5 mm

Curing

Skin-over time		10 min.

Mechanical properties after curing

Tensile strength	ISO 37	1,4 N/mm²
Elongation at break	ISO 37	575 %
Elongation at 100 %	ISO 37	0,5 N/mm²
Movement absorption max.		25 %
Hardness (Shore A)	DIN ISO 7619	25
Volume change	DIN 52451	< -6 %

Thermal parameters

Temperature resistance		-40°C to +180°C
Thermal conductivity		0,2 W/m·K

Approvals / Guidelines

NSF		S2 (FDA 21 CFR)
Hygiene Institute		UBA silicone transition recommendation
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

Application methods

Cartridge gun for 310 ml cartridges, compressed air gun, we recommend a version with piston rod (WEICON Compressed Air Cartridge Gun), automatic dosing systems.

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.

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.

WEICON Middle East L.L.C.
United Arab Emirates
phone +971 4 880 25 05
info@weicon.ae

WEICON Czech Republic s.r.o.
Czech Republic
phone +42 (0) 417 533 013
info@weicon.cz

WEICON GmbH & Co. KG
(Headquaters) Germany
phone +49 (0) 251 9322 0
info@weicon.de

WEICON Romania SRL
Romania
phone +40 (0) 3 65 730 763
office@weicon.com

WEICON South East Asia Pte Ltd
Singapore
Phone (+65) 6710 7671
info@weicon.com.sg

WEICON Colombia S.A.S
Colombia
Phone: +57 314 793 86 06
Email: info@weicon.co

WEICON Inc.
Canada
phone +1 877 620 8889
info@weicon.ca

WEICON Ibérica S.L.
Spain
phone +34 (0) 914 7997 34
info@weicon.es

WEICON Italia S.r.L.
Italy
phone +39 (0) 010 2924 871
info@weicon.it

WEICON SA (Pty) Ltd
South Africa
phone +27 (0) 21 709 0088
info@weicon.co.za

WEICON Kimya Sanayi Tic. Ltd. Şti.
Türkiye
phone +90 (0) 212 465 33 65
info@weicon.com.tr

Elastic adhesives and sealants
Silicones

Silicone LP

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

Available sizes

10104989	Silicone LP, 280 ml (plastic bag), transparent
10104979	Silicone LP, 280 ml (plastic bag), white
10104995	Silicone LP, 280 ml (Set), transparent
10104985	Silicone LP, 280 ml (Set), white
10104992	Silicone LP, 280 ml (Green Tube), transparent
10104982	Silicone LP, 280 ml (Green Tube), white

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/mm^2 x 145 = psi	N/cm x 0.571 = lb/in
MPa x 145 = psi	kV/mm x 25.4 = V/mil

To the product detail page:

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.

WEICON Middle East L.L.C.
United Arab Emirates
phone +971 4 880 25 05
info@weicon.ae

WEICON Czech Republic s.r.o.
Czech Republic
phone +42 (0) 417 533 013
info@weicon.cz

WEICON GmbH & Co. KG
(Headquaters) Germany
phone +49 (0) 251 9322 0
info@weicon.de

WEICON Romania SRL
Romania
phone +40 (0) 3 65 730 763
office@weicon.com

WEICON South East Asia Pte Ltd
Singapore
Phone (+65) 6710 7671
info@weicon.com.sg

WEICON Colombia S.A.S
Colombia
Phone: +57 314 793 86 06
Email: info@weicon.co

WEICON Inc.
Canada
phone +1 877 620 8889
info@weicon.ca

WEICON Ibérica S.L.
Spain
phone +34 (0) 914 7997 34
info@weicon.es

WEICON Italia S.r.L.
Italy
phone +39 (0) 010 2924 871
info@weicon.it

WEICON SA (Pty) Ltd
South Africa
phone +27 (0) 21 709 0088
info@weicon.co.za

WEICON Kimya Sanayi Tic. Ltd. Şti.
Türkiye
phone +90 (0) 212 465 33 65
info@weicon.com.tr

Silicone LP

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.

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.

WEICON Middle East L.L.C.
United Arab Emirates
phone +971 4 880 25 05
info@weicon.ae

WEICON Czech Republic s.r.o.
Czech Republic
phone +42 (0) 417 533 013
info@weicon.cz

WEICON GmbH & Co. KG
(Headquaters) Germany
phone +49 (0) 251 9322 0
info@weicon.de

WEICON Romania SRL
Romania
phone +40 (0) 3 65 730 763
office@weicon.com

WEICON South East Asia Pte Ltd
Singapore
Phone (+65) 6710 7671
info@weicon.com.sg

WEICON Colombia S.A.S
Colombia
Phone: +57 314 793 86 06
Email: info@weicon.co

WEICON Inc.
Canada
phone +1 877 620 8889
info@weicon.ca

WEICON Ibérica S.L.
Spain
phone +34 (0) 914 7997 34
info@weicon.es

WEICON Italia S.r.L.
Italy
phone +39 (0) 010 2924 871
info@weicon.it

WEICON SA (Pty) Ltd
South Africa
phone +27 (0) 21 709 0088
info@weicon.co.za

WEICON Kimya Sanayi Tic. Ltd. Şti.
Türkiye
phone +90 (0) 212 465 33 65
info@weicon.com.tr