

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/cm ³	
Max. sealing joint width	25 mm	
Gap bridging up to max.	5 mm	

Curing

Skin-over time	10 min.	
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Mechanical properties after curing

Tensile strength	ISO 37	1,4 N/mm ²
Elongation at break	ISO 37	575 %
Elongation at 100 %	ISO 37	0,5 N/mm ²
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 soiling, 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

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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

- 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

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$	$\text{Nm} \times 8.851 = \text{lb}\cdot\text{in}$
$\text{mm}/25.4 = \text{inch}$	$\text{Nm} \times 0.738 = \text{lb}\cdot\text{ft}$
$\mu\text{m}/25.4 = \text{mil}$	$\text{Nm} \times 141.62 = \text{oz}\cdot\text{in}$
$\text{N} \times 0.225 = \text{lb}$	$\text{mPa}\cdot\text{s} = \text{cP}$
$\text{N}/\text{mm}^2 \times 145 = \text{psi}$	$\text{N}/\text{cm} \times 0.571 = \text{lb}/\text{in}$
$\text{MPa} \times 145 = \text{psi}$	$\text{kV}/\text{mm} \times 25.4 = \text{V}/\text{mil}$

To the product detail page:



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