Silicone liquid

liquid
self-levelling

Silicone liquid is self-levelling, spreadable, free of solvents and has acetate-crosslinking properties. It is resistant to weathering and ageing, temperature resistant up to +180°C (+356°F), extremely elastic (breaking elongation of approx. 370%) and can be used universally.

Silicone liquid can be specially used for elastic bonds, insulation and impregnation and even for the sealing and casting (max. 10 mm) of technical components. It adheres well to steel, aluminium, glass, ceramics, and many additional materials.

Silicone liquid can be used in machine and system construction, in plastic processing, the energy and electrical industry, in exhibition construction and shopfitting and in many additional industrial areas.

Technical Data

Base	1 C.-Polysiloxane (Acetate)
Density	1,03 g/cm³
Viscosity adhesive	11.000 mPa•s
Stability/Run-off (ASTM D 222)	liquid
Processing temperature	+5 to +35 °C
Cure type	By humidity
Curing condition	+5 to +40°C and 30% to 95% rel. humidity
Skin-overtime*	15 min.
Curing speed (first 24h)	2 -3 mm
Volume change (DIN 52451)	-9 %
Gap filling up to max.	2 mm
Shelf life (+5°C to +25°C / +41°F to +77°F)	12 months
Shore A hardness (DIN 5355 / ASTM D 224) ± 5	23
Elongation at break (DIN 53504/ASTM D 2240) ± 5	370 %
Tensile strength of pure adhesive and sealant	1,8 N/mm²
Average tensile shear strength (DIN 53283 / ASTM D 12)	0,8 N/mm²
Tear strength (DIN 53515/ASTM D 1002)	3,6 N/mm²
Solid percentage	90 %
Overpaintable (liquid paint)	No
Specific forward resistance	7 x 10^14 Ohm/cm
Dielectric strength	16 kV/mm
Thermal conductivity	0,3 W/m.K
Building material category (DIN 412)	B 2
Temperature resistance	-50 to +180 °C

*Measured at 50% relative air humidity and +23°C

Surface pre-treatment
The surfaces must be clean and grease-free. Many surface contaminants, e.g. oil, dust and dirty. Most materials can be bonded well to themselves and among each other. For certain materials or extreme requirements, we recommend the use of an adhesion agent (primer). Detailed information on this subject is contained in the Primer selection table. A mechanical surface pretreatment, e.g. sanding or sand-blasting, can considerably improve the adhesion.

Processing
Application methods

Professional cartridge gun for 310 ml cartridges, compressed air gun (we recommend a variation with piston rod), automatic dosing systems.

Joining the parts to be bonded

To ensure optimal wetting, the parts must be joined before the first skin has been formed on the adhesive (skin-overtime).

Storage
When unopened and stored in a normal climate (+23°C and 50 % rel. humidity), WEICON elastic one-component adhesives and sealants have a shelf life of 12 months.

Safety and health
When using products, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

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