

Silicone Special - black



extremely resistant against oil and grease

Silicone Special - black is high-temperature resistant (+280°C/+536°F), free of solvents, strong, oil-resistant, grease-resistant, pressure-resistant, resistant to ageing and extremely elastic (breaking elongation of approx. 500%).

Silicone Special - black is suitable for bonding and sealing in applications where particularly high oil and grease resistance is required.

Silicone Special - black can be used on gearbox, valve and casing covers, oil sumps, water pumps, gears and axles, flanges, tanks and containers, and in many other areas.

Technical Data

Base	1 C.-Polysiloxane (Acetate)
Density	1,06 g/cm ³
Viscosity adhesive	pasty
Stability/Run-off (ASTM D 222)	> 1 mm
Processing temperature	+5 to +35 °C
Cure type	By humidity
Curing condition	+5 to +40°C and 30% to 95% rel. humidity
Skin-overtime*	7 min.
Curing speed (first 24h)	2 -3 mm
Volume change (DIN 52451)	-9 %
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelf life (+5°C to +25°C / +41°F to +77°F)	12 months
Shore A hardness (DIN 5355 / ASTM D 224) ± 5	30
Elongation at break (DIN 53504/ASTM D 2240) ± 5	500 %
Tensile strength of pure adhesive and sealant	2,0 N/mm ²
Average tensile shear strength (DIN 53283 / ASTM D 12)	0,7 N/mm ²
Tear strength (DIN 53515/ASTM D 1002)	4,0 N/mm ²
Movement capacity max.	15 %
Solid percentage	96 %

Overpaintable (liquid paint)	No
Specific forward resistance	2,5 x 10 ¹⁵ Ohm/cm
Dielectric strength	21 kV/mm
Thermal conductivity	0,3 W/m.K
Building material category (DIN 412)	B 2
Temperature resistance	-60 to +280 briefly (approx. 2 h) to +300 °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 dirt. 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

Processing cartridge

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

Processing tube

Squeeze out by hand, close tube again immediately after use, opened tubes should be used up as quickly as possible.

Processing press pack

Remove original closure. Regulate discharge by smooth turning of the cap from min. to max. Press the lever and process the medium. After having turned the cap into the "min." position the valve closes automatically and the product flow is stopped.

Joining the parts to be bonded

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

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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