

Black-Seal Special Silicone

Extremely resistant against oil and grease

WEICON Black-Seal is black, 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%).

It is suitable for bonding and sealing in applications where particularly high oil and grease resistance is required.

The product 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)	
Colour	black	
Texture	pasty	
Solid content	96 %	
Can be painted	no	
Cure type	moisture-curing	
Stability/run-off	ASTM D 2202	1.0 mm
Density	1,06 g/cm ³	
Curing condition	from +5°C to +40°C and 30% to 95% rel. air air humidity	
Processing temperature	+5°C to +35°C	
Curing speed	in the first 24 h	2 - 3 mm
Skin-over time	7 min.	
Gap bridging up to max.	5 mm	
Max. sealing joint width	25 mm	
Tensile strength	ISO 37 / S3A	2,2 N/mm ²
Elongation at break (tensile)	ISO 37, S3A	500 %
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	0,7 N/mm ²	
Tear resistance	DIN 53515 / ASTM D 1002	4 kN/m
Elongation at 100 %	ISO 37 S3A	0,7 N/mm ²
Movement absorption max.	15 %	
Volume change	DIN 52451	-9 %
Hardness (Shore A)	DIN ISO 7619	30±5
Temperature resistance	-60 °C to briefly +280 °C (approx. 2 h) +300 °C	
Thermal conductivity	0,2 W/m·K	
Resistance	2,5 x 10 ¹⁵ Ω·m	
Dielectric strength	21,0 kV/mm	
Building material class	DIN 4102	B 2
Minimum shelf life	at room temperature	12 mon.
Approvals / Guidelines		
ISSA Code	75.634.24/25/26	
IMPA Code	815248/85/86	
MIL-Spec	complies with	MIL-A-46146 MIL-I-19166

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.

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

Processing Presspack

Remove tamper-evident seal. 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 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
10033114	Compressed Air Cartridge Gun, 1 PCE
10020751	Cartridge Gun Special, 1 PCE
10000441	Cartridge Gun, 1 PCE
10101992	Clip Nozzle Green Tube, 1 PCE, transparent

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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Available sizes

10000763 Black-Seal Special Silicone, 200 ml (Presspack), black
10022222 Black-Seal Special Silicone, 85 ml, black
10104022 Black-Seal Special Silicone, 280 ml (Green Tube), black
10104057 Black-Seal Special Silicone, 280 Set, black
10104248 Black-Seal Special Silicone, 280 ml (plastic bag), black

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:



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