

# Black-Seal



extremely resistant against oil and grease

WEICON Black-Seal adhesive and sealant 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%).

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

WEICON Black-Seal 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.

ISSA: 75.634.24/25  
 IMPA: 81 52 84/85/86

## Technical data

Basis	One-component acetate
Density	1,06 g/cm <sup>3</sup>
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	>1 mm
Processing temperature	+5 bis +35 °C
Cure type	by humidity
Curing condition	from +5°C to +40°C and 30% to 95% relative humidity
Skin-over time	7 min.
Cure speed (first 24 h)	2-3 mm
Volume change (DIN 52451)	-3 %
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelf life (+5°C to +25°C)	12 months
Shore Hardness A (DIN 53505 / ASTM D 2240) ± 5	30
Elongation at break (DIN 53504 / ASTM D 412)	ca. 500 %
Tensile strength of the pure adhesive/sealant	2,0 N/mm <sup>2</sup>
Average tensile shear strength (DIN 53283/ASTM D 1002)	0,7 N/mm <sup>2</sup>
Tear strength (DIN 53515 / ASTM D 624)	4,0 N/mm
Movement capacity max.	15 %
Temperature resistance	-60 to +280 briefly (approx. 2 hrs.) +300 °C
Solid content	96 %
Specific forward resistance	2,5 x 10 <sup>15</sup> Ohm/cm
Dielectric strength	21 kV/mm
Thermal conductivity	0,3 W/m·K
Overpaintable (liquid paint)	No
Building material category (DIN 4102)	B2

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

## Pretreatment of the surface

The surfaces must be clean and grease-free. Many surface contaminants, e.g. oil, dust and dirt, can be removed with WEICON Surface Cleaner. For heavily soiled metal surfaces, we recommend WEICON Cleaner Spray S; WEICON Sealant and Adhesive Remover is suitable for removing old paint or adhesive residues.

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.

## Note

Any product specifications and recommendations given herein 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 warrant the continuously high quality of our products being free from defects in accordance with and subject to our General Sales Conditions. 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.

## Health and Safety

When using WEICON products, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets ([www.weicon.com](http://www.weicon.com)) must be observed.

### WEICON GmbH & Co. KG (Headquarter)

Königsberger Str. 255 · DE-48157 Münster  
 P.O. Box 84 60 · DE-48045 Münster  
 Germany

Tel. +49 (0) 251 / 93 22-0  
 Fax +49 (0) 251 / 93 22-244  
 Fax +49 (0) 251 / 93 22-233 Export  
[www.weicon.de](http://www.weicon.de) · [info@weicon.de](mailto:info@weicon.de)

### WEICON Middle East L.L.C.

Jebel Ali Ind Area 3 · P.O. Box 118 216  
 Dubai · U.A.E

Phone +971 4 880 25 05  
 Fax +971 4 880 25 09  
 Mobile +971 50 545 99 83  
[www.weicon.ae](http://www.weicon.ae) · [info@weicon.ae](mailto:info@weicon.ae)

### WEICON Inc.

20 Steckle Place · Unit 20  
 Kitchener · Ontario · N2E 2C3  
 Canada

Phone +1 519 896 5252  
 Fax +1 519 896 5254  
 Cell +1 519 590 5168  
[www.weicon.ca](http://www.weicon.ca) · [info@weicon.ca](mailto:info@weicon.ca)

### WEICON Kimya Sanayi Tic. Ltd. Şti.

Yenibosna Mahallesi Yalçın Koreş Caddesi  
 Arifağa Sokak No: 29 Kat: 3  
 34530 Yenibosna – İstanbul Turkey  
[www.weicon.biz.tr](http://www.weicon.biz.tr) · [info@weicon.biz.tr](mailto:info@weicon.biz.tr)

### WEICON Romania SRL

Str. Podului Nr.1  
 547176 Budiu Mic (Targu Mures)  
[www.weicon.com](http://www.weicon.com) · [office@weicon.com](mailto:office@weicon.com)