

# 黑色密封胶



## 超强耐油脂

WEICON Black Seal 黑色硅树脂耐高温达+280°C。该产品不含化学溶剂，强度高，耐压力，耐老化，弹性出色（断裂伸长率约为500%）。

Black Seal 黑色硅树脂专门针对需要耐油耐脂的工况。WEICON Black Seal 黑色硅树脂能够用于变速箱、阀门和引擎盖、储油槽、水泵、齿轮和轴承、法兰、油罐等的密封。

## 技术参数

基础成分	单组份矽氧树脂 (乙酸盐)
密度	1,06 g/cm <sup>3</sup>
粘度	膏状
垂流 (依据 ASTM D 2202)	> 1 mm
操作温度	+5 至 +35 °C
固化方式	湿气固化
固化条件	+5至+40°C温度环境及30%至95%相对空气湿度
表干时间*	7 分钟
固化速度 (首24个小时)	2 -3 mm
体积变化 (依据 DIN 52451)	-9 %
最大粘接缝隙	5 mm
最大缝隙宽度	25 mm
保存期限 (+5°C 至 +25°C)	12 个月
邵氏硬度 A (依据 DIN 53505 / ASTM D 2240) ± 5	30
断裂伸长率, 依据ISO 37, S3A	470 %
拉伸强度, 依据ISO 37, S3A	2,2 N/mm <sup>2</sup>
断裂伸长率 (依据 DIN 53504/ASTM D412)	500 %
拉伸至100%时的拉伸强度, 依据 ISO 37, S3A	0,7 N/mm <sup>2</sup>
粘合剂抗拉强度	2,0 N/mm <sup>2</sup>
平均拉伸剪切强度 (依据 DIN EN 1465/ASTM D 1002)	0,7 N/mm <sup>2</sup>
断裂抗性 (依据 DIN 53515/ASTM D 1002)	4,0 N/mm <sup>2</sup>

## 提示

本资料中列出的所有产品，其参数和建议是在实验室的测试结果及经验总结，不得被视为对产品特性的保证。由于每一个用的实际应用情况并不在我们的认知、控制及责任范围内，我们对这些信息并不承担任何义务。我们保证我们的产品符合并遵守我们销售条款中承诺的高品质、无瑕疵的要求。我们建议用户通过自行试验来论证其希望选用的产品是否完全符合预期。因用户未遵照指定的操作方法使用产品而造成损失的情况，用户将独自承担全部责任。

形变极限	15 %
固体含量	96 %
特定正向电阻	2,5 x 10 <sup>15</sup> Ohm/cm
介电强度	21 kV/mm
热传导率	0,3 W/m·K
是否可涂漆 (湿涂)	没有
可燃性等级 (DIN 4102)	B 2
耐温性	-60至+280, 短时 (约2小时) 可达+300 °C
ISSA 编码	75.634.24/25/26
IMPA 编码	81 52 84/85/86

\*50%空气湿度和+23°C环境温度下的测试结果

## 表面预处理

待粘接的物体表面需清洁、无油脂。大多数污垢（如油、脂、粉尘、污渍等）都能用WEICON表面清洁剂除去。针对严重污染的金属表面，我们推荐使用WEICON清洁喷剂S；针对老化的油漆或胶水残留物，我们建议使用WEICON密封胶去除剂。多数材料都能够很好地进行同材及异材粘接。针对少数特殊材料或极端工况，我们建议在涂胶之前先使用底漆进行预处理。详细说明请参见底漆选型表。使用机械方式对待粘接的表面进行预处理（如研磨或喷砂），能够大大提升粘接效果。

## 操作

### 胶瓶包装的操作

针对310 ml胶瓶，可使用手动胶枪，也可使用空压式胶枪（我们推荐WEICON空压式胶枪），亦或是使用自动点胶机。

### 管状包装的操作

手动挤压瓶身，使用后即刻将瓶口密封。胶水开封后需尽快使用完毕。

## 粘接

为确保最佳的粘接效果，需在涂上胶水的材料表面形成第一层薄膜之前，将粘接部件进行接合。

## 储藏

在未开封且存放于正常环境（23°C，50%相对湿度）的情况下，WEICON单组份弹性密封胶的保质期为12个月。

## 安全与健康

使用WEICON产品时，需注意产品的物理性、安全性、毒性、生态性的详细参数以及我们EG材料安全数据表（[www.weicon.com](http://www.weicon.com)）的具体信息。

## 包装

13051085	黑色密封胶 85 ml 黑色
13051200	黑色密封胶 200 ml 黑色
13051310-47	黑色密封胶 310 ml 黑色

## 产品配件

13955072	Press Pack Dosing Tip,
----------	------------------------

WEICON GmbH & Co. KG  
(Headquarters)  
Germany  
phone +49 (0) 251 9322  
0  
info@weicon.de  
www.weicon.de

WEICON SA (Pty) Ltd  
South Africa  
phone +27 (0) 21 709  
0088  
info@weicon.co.za  
www.weicon.co.za

WEICON Middle East L.L.C.  
United Arab Emirates  
phone +971 4 880 25 05  
info@weicon.ae  
www.weicon.ae

WEICON South East Asia Pte Ltd  
Singapore  
phone (+65) 6710 7671  
info@weicon.com.sg  
www.weicon.com.sg

WEICON Inc.  
Canada  
phone +1 877 620 8889  
info@weicon.ca  
www.weicon.ca

WEICON Czech Republic  
s.r.o.  
Czech Republic  
phone +42 (0) 417 533 013  
info@weicon.cz  
www.weicon.cz

WEICON Kimya Sanayi Tic. Ltd.  
Şti.  
Turkey  
phone +90 (0) 212 465 33 65  
info@weicon.com.tr  
www.weicon.com.tr

WEICON Ibérica S.L.  
Spain  
phone +34 (0) 914 7997 34  
info@weicon.es  
www.weicon.es

WEICON Romania SRL  
Romania  
phone +40 (0) 3 65 730  
763  
office@weicon.com  
www.weicon.com.ro

WEICON Italia S.r.l.  
Italy  
phone (+39) 0102924871  
info@weicon.it  
www.weicon.it

# Black-Seal Special Silicone



Average tensile shear strength (DIN EN 1465/ ASTM D 12)	0,7 N/mm <sup>2</sup>
Tear strength (DIN 53515/ASTM D 1002)	4,0 N/mm <sup>2</sup>
Movement capacity max.	15 %
Solid percentage	96 %
Overpaintable (liquid paint)	No
Specific forward resistance	2,5 x 10 <sup>15</sup> 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
ISSA-Code	75.634.24/25/26
IMPA-Code	81 52 84/85/86

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

## 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.

## Technical Data

Base	1 C.-Polysiloxane (Acetate)
density	1,06 g/cm <sup>3</sup>
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 acc. to ISO 37, S3A	470 %
Tensile strength acc. to ISO 37, S3A	2,2 N/mm <sup>2</sup>
Elongation at break (DIN 53504/ASTM D 2240) ± 5	500 %
Tension strength value at 100 % (ISO 37, S3A)	0,7 N/mm <sup>2</sup>
Tensile strength of pure adhesive and sealant	2,0 N/mm <sup>2</sup>

## 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.

## Surface pre-treatment

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.

WEICON GmbH & Co. KG  
(Headquarters)  
Germany  
phone +49 (0) 251 9322 0  
info@weicon.de  
www.weicon.de

WEICON Middle East L.L.C.  
United Arab Emirates  
phone +971 4 880 25 05  
info@weicon.ae  
www.weicon.ae

WEICON Inc.  
Canada  
phone +1 877 620 8889  
info@weicon.ca  
www.weicon.ca

WEICON Kimya Sanayi Tic. Ltd. Şti.  
Turkey  
phone +90 (0) 212 465 33 65  
info@weicon.com.tr  
www.weicon.com.tr

WEICON Romania SRL  
Romania  
phone +40 (0) 3 65 730 763  
office@weicon.com  
www.weicon.com.ro

WEICON SA (Pty) Ltd  
South Africa  
phone +27 (0) 21 709 0088  
info@weicon.co.za  
www.weicon.co.za

WEICON South East Asia Pte Ltd  
Singapore  
phone (+65) 6710 7671  
info@weicon.com.sg  
www.weicon.com.sg

WEICON Czech Republic s.r.o.  
Czech Republic  
phone +42 (0) 417 533 013  
info@weicon.cz  
www.weicon.cz

WEICON Ibérica S.L.  
Spain  
phone +34 (0) 914 7997 34  
info@weicon.es  
www.weicon.es

WEICON Italia S.r.l.  
Italy  
phone (+39) 0102924871  
info@weicon.it  
www.weicon.it

**Safety and health**

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.

**Available sizes:**

13051085 Black-Seal Special Silicone 85 ml black  
 13051200 Black-Seal Special Silicone 200 ml black  
 13051310 Black-Seal Special Silicone 310 ml black

**Accessories:**

13955072 Press Pack Dosing Tip,

**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.

WEICON GmbH & Co. KG  
 (Headquarters)  
 Germany  
 phone +49 (0) 251 9322 0  
[info@weicon.de](mailto:info@weicon.de)  
[www.weicon.de](http://www.weicon.de)

WEICON Middle East L.L.C.  
 United Arab Emirates  
 phone +971 4 880 25 05  
[info@weicon.ae](mailto:info@weicon.ae)  
[www.weicon.ae](http://www.weicon.ae)

WEICON Inc.  
 Canada  
 phone +1 877 620 8889  
[info@weicon.ca](mailto:info@weicon.ca)  
[www.weicon.ca](http://www.weicon.ca)

WEICON Kimya Sanayi Tic. Ltd. Şti.  
 Turkey  
 phone +90 (0) 212 465 33 65  
[info@weicon.com.tr](mailto:info@weicon.com.tr)  
[www.weicon.com.tr](http://www.weicon.com.tr)

WEICON Romania SRL  
 Romania  
 phone +40 (0) 3 65 730 763  
[office@weicon.com](mailto:office@weicon.com)  
[www.weicon.com.ro](http://www.weicon.com.ro)

WEICON SA (Pty) Ltd  
 South Africa  
 phone +27 (0) 21 709 0088  
[info@weicon.co.za](mailto:info@weicon.co.za)  
[www.weicon.co.za](http://www.weicon.co.za)

WEICON South East Asia Pte Ltd  
 Singapore  
 phone (+65) 6710 7671  
[info@weicon.com.sg](mailto:info@weicon.com.sg)  
[www.weicon.com.sg](http://www.weicon.com.sg)

WEICON Czech Republic s.r.o.  
 Czech Republic  
 phone +42 (0) 417 533 013  
[info@weicon.cz](mailto:info@weicon.cz)  
[www.weicon.cz](http://www.weicon.cz)

WEICON Ibérica S.L.  
 Spain  
 phone +34 (0) 914 7997 34  
[info@weicon.es](mailto:info@weicon.es)  
[www.weicon.es](http://www.weicon.es)

WEICON Italia S.r.l.  
 Italy  
 phone (+39) 0102924871  
[info@weicon.it](mailto:info@weicon.it)  
[www.weicon.it](http://www.weicon.it)