

硅树脂F



液态
自流平
中性交联

WEICON硅树脂 Silicon F 是一款用于灌封和涂层的液态密封胶。它能够自流平，可涂刷，不含化学溶剂，中性交联。该产品耐风化，耐老化，耐高温达+180°C且用途广泛。

硅树脂 Silicon F 专用于弹性粘接、绝缘涂层及浸胶。它也能够作为密封材料为机器设备进行灌封（最大厚度10mm）。它能很好地粘接钢材、铝材、玻璃、陶瓷等诸多材质。

硅树脂 Silicon F 能够用于机械制造、塑料加工、能源和电子工业、展台搭建等各个领域。

技术参数

基础成分	单组份硅树脂（脰）
密度	1,03 g/cm ³
粘度	30.000 mPa·s
垂流 (依据 ASTM D 2202)	液态
操作温度	+5 至 +40 °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*	15 分钟
固化速度（首24个小时）	2 -3 mm
体积变化(依据 DIN 52451)	4 %
最大粘接缝隙	3 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	10
断裂伸长率，依据ISO 37, S3A	600 %
拉伸强度，依据ISO 37, S3A	1,8 N/mm ²
拉伸至100%时的拉伸强度，依据 ISO 37, S3A	0,2 N/mm ²
形变极限	20 %
特定正向电阻	1·10 ¹² Ohm/cm
介电强度	17 kV/mm

提示
本资料中列出的所有产品，其参数和建议是我们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。

热传导率	0,2 W/m·K
是否可涂漆（湿涂）	没有
可燃性等级 (DIN 4102)	B 2
耐温性	-50 至 +180 °C

*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密封胶去除喷剂。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

使用方法

可使用手动压力胶枪或空压胶枪进行打胶操作（建议使用带活塞杆的胶枪，如WEICON空压胶枪）；亦可使用自动点胶机。将待粘接部件进行粘合。为了达到最佳的浸润效果，涂胶后的待粘接部件需在胶水表面形成干膜前（表干时间）进行粘合操作。

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、毒理性、生态性的详细参数以及我们EG材料安全数据表（www.weicon.com）的具体信息。

包装

13200310 硅树脂F 310 ml 透明

产品配件

13250000 胶瓶切刀, 310 ml
13250001 压力胶枪,
13250002 压力胶枪特殊款,
13250009 空压胶枪,

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Silicone F



liquid
self-levelling
neutral cure

The coating and casting compound WEICON Silicone F is liquid, self-levelling, spreadable, solvent-free, neutral-curing, weathering-, ageing-, and temperature-resistant up to +180 °C (+356 °F) and suitable for universal use.

It is especially suitable for elastic adhesive bonds, insulations and waterproofing as well as for sealing and casting (max. 10 mm) technical components. It adheres well to steel, aluminium, glass, ceramic and many other materials.

The product can be used in machine and plant engineering, in plastic processing, in the energy and electronics industry, in shopfitting and trade fair construction and in many other areas of industry.

Technical Data

Composition	1 C.-Polysiloxane (Oxime)
density	1,03 g/cm³
Viscosity adhesive	30.000 mPa·s
Stability/Run-off (ASTM D 222)	liquid
Processing temperature	+5 to +40 °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)	4 %
Gap filling up to max.	3 mm
Shelf life (+5°C to +25°C / +41°F to +77°F)	12 months
Shore A hardness (DIN 5355 / ASTM D 224) ± 5	10
Elongation at break acc. to ISO 37, S3A	600 %
Tensile strength acc. to ISO 37, S3A	1,8 N/mm²
Tension strength value at 100 % (ISO 37, S3A)	0,2 N/mm²
Movement capacity max.	20 %

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.

Overpaintable (liquid paint)	No
Specific forward resistance	1·10 ¹² Ohm/cm
Dielectric strength	17 kV/mm
Thermal conductivity	0,2 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 free of grease. 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 pre-treatment, 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.

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 at room temperature (+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 WEICON products, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Available sizes:

13200310 Silicone F 310 ml transparent

Accessories:

13250000 Cartridge Cutter, 310 ml
13250001 Cartridge Gun, 310 ml
13250002 Cartridge Gun Special, 310 ml

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Technical Datasheet

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13250009 Compressed Air Cartridge Gun,

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