

## Flex 310 PU聚氨酯弹性胶



以聚氨酯为基础的弹性胶，强度高，具永久弹性，取得ISEGA食品级认证。

Flex 310 PU聚氨酯弹性胶具永久弹性，强度高，可涂漆，耐风化，耐淡水与盐水，不含硅。

该产品是一款以聚氨酯为基础成分的弹性胶，适用于各种材质的粘接与密封，如金属、塑料、陶瓷、木材、玻璃、石材等

它能够用于金属加工、仪器制造、车辆和集装箱结构、通风和空调系

统、电气行业、船舶工业和其他不允许使用硅胶或含硅产品的工况。



## 技术参数

基础成分	单组份聚氨酯
密度	1,17 g/cm <sup>3</sup>
粘度	膏状
垂流 (依据 ASTM D 2202)	1 mm
操作温度	+5 至 +40 °C
固化方式	湿气固化
固化条件	+5至+35°C温度环境及40%至70%相对空气湿度
表干时间*	45 分钟
固化速度 (首24个小时)	2 -3 mm
体积变化(依据 DIN 52451)	-6 %
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	45
断裂伸长率(依据 DIN 53504/ASTM D412)	450 %

## 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。

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)	1,6 N/mm <sup>2</sup>
在室温下固化后的玻璃转换温度	-45 °C
断裂抗性(依据 DIN 53515/ASTM D 1002)	9 N/mm <sup>2</sup>
形变极限	10 %
是否可涂漆 (湿涂)	完全固化后可涂漆
可燃性等级 (DIN 4102)	B 2
耐温性	-40至+90, 短时 (约2小时) 可达+120 °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表面清洁剂去除。针对严重污染的金属表面，我们推荐使用WEICON清洁剂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

## 使用方法

适用于310 ml胶瓶的手动胶枪，气动胶枪 (我们建议使用带活塞连杆的胶枪)，自动点胶系统

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

13300310-47	Flex 310 PU聚氨酯弹性胶 300 ml 白色
13301310-47	Flex 310 PU聚氨酯弹性胶 300 ml 黑色
13302310-47	Flex 310 PU聚氨酯弹性胶 300 ml 灰色

## 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,
13955031	V型喷嘴,

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

# Flex 310 PU Polyurethane



Shore A hardness (DIN 5355 / ASTM D 224) ± 5	45
Elongation at break (DIN 53504/ASTM D 2240) ± 5	450 %
Tensile strength of pure adhesive and sealant	2,0 N/mm <sup>2</sup>
Average tensile shear strength (DIN EN 1465/ ASTM D 12)	1,6 N/mm <sup>2</sup>
Tg after curing at room temperature	-45 °C
Tear strength (DIN 53515/ASTM D 1002)	9 N/mm <sup>2</sup>
Movement capacity max.	10 %
Overpaintable (liquid paint)	after complete curing
Building material category (DIN 412)	B 2
Temperature resistance	-40 to +90 kuzz. (approx. 2 h) +120 °C

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

## Adhesive and Sealant on Polyurethane basis strong adhesion, permanently elastic, ISEGA certified

WEICON Flex 310 PU adhesive and sealant is permanently elastic, strong, overpaintable, and resistant to weather, resistant against aging, grindable, low odor and free of silicone.

This versatile Adhesive and Sealant on Polyurethane basis (PUR) is for the bonding and sealing of numerous materials such as metals, plastics, ceramics, wood, glass and stone. Resistant against fresh and salt water as well as weak acids and alkalis.

Flex 310 PU can be used in tank and apparatus engineering, carriage, container and vehicle construction, in ventilation and air conditioning systems, the energy and electrical industry and in all applications where silicones or products containing silicones are not suitable.



## Technical Data

Base	1 C.-Polyurethane
density	1,17 g/cm <sup>3</sup>
Viscosity adhesive	pasty
Stability/Run-off (ASTM D 222)	1 mm
Processing temperature	+5 to +40 °C
Cure type	By humidity
Curing condition	+5 to +35°C and 40% to 70% rel. humidity
Skin-overtime*	45 min.
Curing speed ( first 24h)	2 -3 mm
Volume change (DIN 52451)	-6 %
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

### 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 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

### Application methods

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

Joining the parts to be bonded

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

## 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](http://www.weicon.com)) must be observed.

## Available sizes:

13300310	Flex 310 PU Polyurethane 300 ml white
13301310	Flex 310 PU Polyurethane 300 ml black
13302310	Flex 310 PU Polyurethane 300 ml gray

## Accessories:

13250000	Cartridge Cutter, 310 ml
----------	--------------------------

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 (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

## Technical Datasheet

Create Date:17.08.2020 - Seite2/2

13250001	Cartridge Gun,
13250002	Cartridge Gun Special,
13250009	Compressed Air Cartridge Gun,
13955031	V-Joint Nozzle,

---

### 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  
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