

Flex 310 M® 经典款



使用范围广

WEICON FLEX 310 M 经典款密封胶附着出色、湿润时可涂漆、固化后可研磨，同时还具有突出的耐老化性和良好的抗紫外线能力。它能够抵抗淡水和咸水，不含硅、异氰酸酯、卤素或溶剂。

该产品通过欧洲食品级认证 (ISEGA)，可用于食品行业。FLEX 310 M 经典款是一款MS聚合物为基础的弹性密封胶，适用于金属、多数塑料、陶瓷、木材、玻璃和石材的粘接。

FLEX 310 M 经典款能够用于金属加工、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	单组份聚氧化丙烯
密度	1,44 g/cm ³
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+40°C温度环境及30%至95%相对空气湿度
表干时间*	25 分钟
固化速度 (首24个小时)	2 - 3 mm
体积变化(依据 DIN 52451)	-1 %
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	42
断裂伸长率(依据 DIN 53504/ASTM D412)	650 %
粘合剂抗拉强度	3,3 N/mm ²

提示

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平均拉伸剪切强度(依据 DIN EN 1465/ASTM D 1002)	2,1 N/mm ²
在室温下固化后的玻璃转换温度	-55 °C
电阻率	> 10 ¹⁰ Ohm/cm
断裂抗性(依据 DIN 53515/ASTM D 1002)	20 N/mm ²
形变极限	15 %
是否可涂漆 (湿涂)	湿润时可涂漆；最晚不可迟于涂胶后3个小时
可燃性等级 (DIN 4102)	B2
耐温性	-40至+90，短时可达+130 °C
ISSA 编码	75.634.30/31/32
IMPA 编码	815271/72/73

*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

13303200-47	Flex 310 M® 经典款 200 ml 白色
13303310-47	Flex 310 M® 经典款 310 ml 白色
13304200-47	Flex 310 M® 经典款 200 ml 黑色
13304310-47	Flex 310 M® 经典款 310 ml 黑色
13305200-47	Flex 310 M® 经典款 200 ml 灰色
13305310-47	Flex 310 M® 经典款 310 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,

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技术参数表

修订日期17.08.2020 - 页数2/2

13250009 空压胶枪,
13955031 V型喷嘴,

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Flex 310 M® Classic MS-Polymer



suitable for universal use

WEICON Flex 310 M Classic adhesive and sealant is strong, overpaintable (wet in wet), sandable, has outstanding aging stability and good resistance to UV rays. It is resistant to freshwater and salt water and is free of silicone, isocyanate, halogens or solvents.

The product has an ISEGA certificate and can be used as an adhesive in food technology. Flex 310 M Classic is an elastic adhesive on an MS polymer basis and is suitable for the bonding of metals, many plastics, ceramic, wood, glass and stone.

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



Technical Data

Base	1 C.-Polyoxypropylene
density	1,44 g/cm ³
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 +40°C and 30% to 95% rel. humidity
Skin-overtime*	25 min.
Curing speed (first 24h)	2 - 3 mm
Volume change (DIN 52451)	-1 %
Gap filling up to max.	5 mm

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.

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	42
Elongation at break (DIN 53504/ASTM D 2240) ± 5	650 %
Tensile strength of pure adhesive and sealant	3,3 N/mm ²
Average tensile shear strength (DIN EN 1465/ ASTM D 12)	2,1 N/mm ²
Tg after curing at room temperature	-55 °C
Specific resistance	> 10 ¹⁰ Ohm/cm
Tear strength (DIN 53515/ASTM D 1002)	20 N/mm ²
Movement capacity max.	15 %
Overpaintable (liquid paint) only „wet in wet“, within 3 hrs. at the latest after material app	
Building material category (DIN 412)	B2
Temperature resistance	-40 to +90 briefly to +130 °C
ISSA-Code	75.634.30/31/32
IMPA-Code	815271/72/73

*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

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) must be observed.

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Technical Datasheet

Create Date:17.08.2020 - Seite2/2

Available sizes:

13303200	Flex 310 M@ Classic MS-Polymer 200 ml white
13303310	Flex 310 M@ Classic MS-Polymer 310 ml white
13304200	Flex 310 M@ Classic MS-Polymer 200 ml black
13304310	Flex 310 M@ Classic MS-Polymer 310 ml black
13305200	Flex 310 M@ Classic MS-Polymer 200 ml grey
13305310	Flex 310 M@ Classic MS-Polymer 310 ml grey

Accessories:

13250000	Cartridge Cutter, 310 ml
13250001	Cartridge Gun,
13250002	Cartridge Gun Special,
13250009	Compressed Air Cartridge Gun,
13955031	V-Joint Nozzle,

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