

Flex 310 M® 液体胶



液态, 自流平

Flex 310 M液体胶似一款能自流平的单组份灌封及涂层材料, 其基础成为聚氧丙烯。

Flex 310 M液体胶具永久弹性, 固化后可上漆。这款弹性密封胶固化时无气味, 耐风化、耐紫外线。它的抗老化能力极强, 且不含硅。

Flex 310 M液态胶能够粘接及密封各种材质, 如金属、多种塑料、陶瓷、木材、玻璃及石材。此外, 它还可以用于绝缘和浸渗。

该产品适用于多种工业领域, 如容器/仪器制造、车身、汽车、集装箱制造、管道/仪表制造、能源和电力工业、隔绝/绝缘技术以及塑料技术。



技术参数

基础成分	单组份MS聚合物
密度	1,48 g/cm ³
粘度	7.000 mPa·s
垂流 (依据 ASTM D 2202)	液态, 自流平
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*	40 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	0,5 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	43
断裂伸长率(依据 DIN 53504/ASTM D412)	400 %
粘合剂抗拉强度	2,2 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)	1,8 N/mm ²
电阻率	1,1 x 10 ¹² Ohm/cm
断裂抗性(依据 DIN 53515/ASTM D 1002)	11 N/mm ²
形变极限	10 %
可燃性等级 (DIN 4102)	B 2
特定正向电阻	1,1 x 10 ¹² Ohm/cm
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

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

13333310 Flex 310 M® 液体胶 310 ml

产品配件

13250000 胶瓶切刀, 310 ml
13250001 压力胶枪,

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技术参数表

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13250002 压力胶枪特殊款,
13250009 空压胶枪,

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Flex 310 M® liquid MS-Polymer



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	43
Elongation at break (DIN 53504/ASTM D 2240) ± 5	400 %
Tensile strength of pure adhesive and sealant	2,2 N/mm ²
Average tensile shear strength (DIN EN 1465/ ASTM D 12)	1,8 N/mm ²
Specific resistance	1,1 x 10 ¹² Ohm/cm
Tear strength (DIN 53515/ASTM D 1002)	11 N/mm ²
Movement capacity max.	10 %
Building material category (DIN 412)	B 2
Specific forward resistance	1,1 x 10 ¹² Ohm/cm
Temperature resistance	-40 to +90 briefly (approx. 2 h) to +120 °C

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

liquid self-levelling

Flex 310 M Liquid is a self-levelling, one-component casting and coating mass based on polyoxypropylene.

Flex 310 M Liquid is permanently elastic and can be painted over after curing. The flexible adhesive and sealing substance cures odourless; is weather and UV-resistant, has excellent anti-aging properties and is free of silicone.

Flex 310 M Liquid can be used in diverse applications for adhesion and sealing of very different materials such as metals, many plastics, ceramics, wood, glass or stone and for insulation and impregnation.

The flexible adhesive and sealing substance can also be used in other industrial areas, such as in tank and apparatus construction, in car bodywork, container and vehicle construction, in pipeline and fittings construction, in the energy and electrical industries, in sound insulation and insulation technology and in plastics technology.

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.



Technical Data

Base	1 C.-MS Polymer
density	1,48 g/cm ³
Viscosity adhesive	7.000 mPa*s
Stability/Run-off (ASTM D 222)	Liquid, self-levelling
Processing temperature	+5 to +40 °C
Cure type	By humidity
Curing condition	+5 to +40°C and 40% to 70% rel. humidity
Skin-overtime*	40 min.
Curing speed (first 24h)	2 -3 mm
Volume change (DIN 52451)	-9 %
Gap filling up to max.	0,5 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.

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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:

13333310 Flex 310 M® liquid MS-Polymer 310 ml

Accessories:

13250000 Cartridge Cutter, 310 ml
 13250001 Cartridge Gun,
 13250002 Cartridge Gun Special,
 13250009 Compressed Air Cartridge Gun,

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