

Flex 310 M® 透明款



固化后无色透明

WEICON Flex 310 M 透明款密封胶附着力出色、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。

WEICON Flex 310 M 透明款通过欧洲食品级认证 (ISEGA)，可用于食品行业。它是一款以MS聚合物为基础成分的弹性密封胶，适用于玻璃、PC*、PMMA*和丙烯酸玻璃*、金属、多数塑料、陶瓷、木材和石材等的粘接。

该产品固化后完全透明，尤其适用于需要隐形粘接的工况。FLEX 310 M 透明款能够用于塑料加工、金属加工、设备制造、通风和空调系统、电气和照明设施、展台搭建及其他不允许或不建议使用硅胶或含硅产品的工况。

(* = 只允许在无张力条件下进行粘接)



技术参数

基础成分	单组份聚氧化丙烯
密度	1,06 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*	10 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	40
断裂伸长率 (依据 DIN 53504/ASTM D412)	300 %
粘合剂抗拉强度	3,0 N/mm ²
平均拉伸剪切强度 (依据 DIN EN 1465/ASTM D 1002)	2,0 N/mm ²
电阻率	1,2 x 10 ¹² Ohm/cm
断裂抗性 (依据 DIN 53515/ASTM D 1002)	19 N/mm ²
形变极限	20 %
是否可涂漆 (湿涂)	nur "nass ins nass" spätestens innerhalb von 3 h
可燃性等级 (DIN 4102)	B 2
特定正向电阻	1,2 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

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

13308200-47 Flex 310 M® 透明款 200 ml 透明
13308310-47 Flex 310 M® 透明款 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,
13955031 V型喷嘴,

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、无污染的要求。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。

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Flex 310 M® Crystal 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	40
Elongation at break (DIN 53504/ASTM D 2240) ± 5	300 %
Tensile strength of pure adhesive and sealant	3,0 N/mm ²
Average tensile shear strength (DIN EN 1465/ ASTM D 12)	2,0 N/mm ²
Specific resistance	1,2 x 10 ¹² Ohm/cm
Tear strength (DIN 53515/ASTM D 1002)	19 N/mm ²
Movement capacity max.	20 %
Overpaintable (liquid paint) <i>only „wet in wet“, within 3 hrs. at the latest after material app</i>	
Building material category (DIN 412)	B 2
Specific forward resistance	1,2 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

crystal-clear curing

WEICON Flex 310 M Crystal adhesive and sealant is transparent, strong, overpaintable (wet in wet), sandable, has outstanding aging stability and good resistance to UV rays. It contains no silicone, isocyanate, halogens or solvents.

WEICON Flex 310 M Crystal has an ISEGA certificate and can be used as an adhesive in food technology.

The product is crystal clear after curing and is particularly suited for elastic joints where the adhesive should or must not be visible.

Flex 310 M Crystal can be used in plastic processing, metal construction, tank and apparatus engineering, in ventilation and air conditioning systems, the electrical and lighting industry, in exhibition stand construction and shopfitting and in all applications where silicones or products containing silicones are not suitable.

* = Only tension-free bonding



Technical Data

Base	1 C.-Polyoxypropylen
density	1,06 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*	10 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.

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:11.01.2021 - Seite2/2

Available sizes:

13308200	Flex 310 M@ Crystal MS-Polymer 200 ml transparent
13308310	Flex 310 M@ Crystal MS-Polymer 310 ml transparent

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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