

Flex 310 M® liquid MS-Polymer



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.



Technical Data

| | |
|--------------------------------|------------------------|
| Composition | 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 temperatur | +5 to +40 °C |

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.

| | |
|--|---|
| Cure type | By humidity |
| Curing condition | +5 to +40°C and 40% to 70% rel. humidity |
| Skin-overtime* | 40 min. |
| Cure speed (first 24h) | 2 -3 mm |
| Volume change (DIN 52451) | -9 % |
| Gap filling up to max. | 0,5 mm |
| 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 53283 / ASTM D 12) | 1,8 N/mm ² |
| 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 |
| Layer thickness | 2,3 mm |
| Temperature resistance | -40 to +90 briefly (approx. 2 h) to +120 °C |

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

Surface pre-treatment

The surfaces must be clean and grease-free. 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 pretreatment, 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).

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Technical Datasheet

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Storage

When unopened and stored in a normal climate (+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:

13333310 Flex 310 M@ liquid MS-Polymer 310 ml

Accessories:

| | |
|----------|-------------------------------|
| 11207400 | Surface Cleaner, 400 ml |
| 11850200 | Hand Protective Foam, 200 ml |
| 13250000 | Cartridge Cutter, |
| 13250001 | Cartridge Gun, |
| 13250002 | Cartridge Gun Special, |
| 13250009 | Compressed Air Cartridge Gun, |
| 13550125 | Primer M 100, 250 ml |
| 13550225 | Primer K 200, 250 ml |
| 13550325 | Primer S 300, 250 ml |
| 13550425 | Primer P 400, 250 ml |

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