

Flex 310 M[®] Liquid MS-Polymer



Liquid | self-levelling | ISEGA-certified

Flex 310 M Liquid is a self-levelling, 1-component casting and coating mass based on polyoxypropylene. The product is permanently elastic and paintable after curing. The flexible adhesive and sealant cures odourless, is resistant to weather and UV rays, has an excellent resistance to ageing and is free of silicone. Flex 310 M Liquid can be used in diverse applications for the bonding and sealing of many different materials such as metals, many plastics, ceramics, wood, glass or stone and for insulation and impregnation. The flexible adhesive and sealant 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

Base	1-C. MS polymer	
Colour	white	
Texture	liquid, self-levelling	
Paintable	only "wet into the wet" within 3 h at the latest	
Cure type	moisture-curing	
Viscosity	7.000 (0,5 1/s)	
Density	1,48 g/cm ³	
Curing condition	from +5°C to +40°C and 40% to 70% rel. air humidity	
Processing temperature	+5°C to +40°C	
Curing speed	in the first 24 h	2 -3 mm
Skin-over time	40 min.	
Gap bridging up to max.	0,5 mm	
Max. sealing joint width	25 mm	
Tensile strength	ISO 37 / S3A	2,2 N/mm ²
Tensile strength of the pure adhesive and sealant	ISO 37	2,2 N/mm ²
Elongation at break (tensile)	DIN 53504/ASTM D412	400 %
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	1,8 N/mm ²	
Tear resistance	DIN 53515 / ASTM D 1002	11 kN/m
Volume change	DIN 52451	-9 %
Hardness (Shore A)	DIN ISO 7619	43±5
Temperature resistance	-40 °C to briefly +90 °C (approx. 2 h) +120 °C	
Resistance	1,1 x 10 ¹² Ω·m	
Specific resistance	1,1 x 10 ¹² Ω·cm	
Building material class	DIN 4102	B 2
Shelf life	12 mon.	

Surface pre-treatment

Surfaces must be clean and free of grease. Many surface soiling, such as oil, grease, dust and dirt can be removed with WEICON

Surface Cleaner. For heavily soiled metal surfaces, we recommend Cleaner Spray S; for removing old colour residues or adhesive

residues, WEICON Sealant and Adhesive Remover is ideal. Most materials can be bonded to and among each other. For certain materials or special requirements, we recommend the use of a

bonding agent (primer). Mechanical surface pre-treatment e.g. by grinding or sanding can also improve the adhesion considerably.

Processing

Application methods Cartridge gun for 310 ml cartridges, compressed air gun, we recommend a version with piston rod (WEICON Compressed Air Cartridge Gun), automatic dosing systems. Joining the components In order to guarantee and ideal wetting, the bonding parts need to be joined, before the adhesive skins over (skin-over time).

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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Storage

When unopened and stored in normal climate (+23°C and 50 % rel. air humidity), WEICON Elastic Adhesives and Sealants have a shelf life of 12 months.

Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Accessories

- 10025241 V-Joint Nozzle, 1 PCE
- 10033114 Compressed Air Cartridge Gun, 1 PCE
- 10020751 Cartridge Gun Special, 1 PCE
- 10000441 Cartridge Gun, 1 PCE

Available sizes

- 10039625 Flex 310 M[®] Liquid MS-Polymer, 310 ml, white

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