

# Flex 310 M® Classic MS-Polymer



## Suitable for universal use | ISEGA-certified

WEICON Flex 310 M Classic is strong, paintable (wet-on-wet), sandable, has an outstanding resistance to ageing and good resistance to UV rays. It is resistant to fresh and salt water and is free of silicone, isocyanate, halogens and solvents. The product as an ISEGA certificate and can be used as an adhesive in the food technology. Flex 310 M Classic is an elastic adhesive based on MS polymer and is suitable for the bonding of metals, many plastics, ceramics, wood, glass and stone. This adhesive and sealant 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
Texture	pasty
Can be painted	only "wet into the wet" within 3 h at the latest
Cure type	moisture-curing
Stability/run-off	ASTM D 2202
Density	1.0 mm
Curing condition	1.44 g/cm <sup>3</sup>
Processing temperature	from +5°C to +40°C and 30% to 95% rel. air air humidity
Curing speed	+5°C to +40°C
Skin-over time	in the first 24 h
Gap bridging up to max.	2 - 3 mm
Max. sealing joint width	25 min.
Tensile strength	ISO 37 / S3A
Tensile strength of the pure adhesive and sealant	3,3 N/mm <sup>2</sup>
Elongation at break (tensile)	ISO 37 / S3A
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	3,3 N/mm <sup>2</sup>
Tear resistance	DIN 53515 / ASTM D 1002
Volume change	20 kN/m
Hardness (Shore A)	DIN ISO 7619
Temperature resistance	-40 °C to +90 °C, briefly up to +130 °C
Tg after curing at room temperature	-55 °C
Resistance	2.3 mm layer thickness
Specific resistance	1.0 x 10 <sup>10</sup> Ω·m
Dielectric strength	> 10 <sup>10</sup> Ω·cm
Tracking resistance	DIN EN 60243-1 (20°C)
Building material class	13,07 kV/mm
Minimum shelf life	CTI 800
	B 2
	12 mon.
<b>Approvals / Guidelines</b>	
ISSA Code	75.634.30/31/32
IMPA Code	815271/72/73
MIL-Spec	complies with MIL-A-101A

## Surface Pre-Treatment

Surfaces must be clean and free of grease. Many surface soilings, 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.

## 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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## Application

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 an ideal wetting, the bonding parts need to be joined, before the adhesive skins over (skin-over time).

## Ageing

The test specimens were artificially aged according to DIN ISO 21194, Annex A, to assess their long-term durability.

After artificial ageing, Flex 310 M Classic with Primer K 200 or Activating Cleaner achieved grade 1 in the bead peel test on aluminium.

Grade 1 means: more than 95% cohesive failure and less than 5% adhesive failure in the form of the adhesive peeling off the contact surface.

After artificial ageing, Flex 310 M Classic with Primer K 200 or Activating Cleaner achieved grade 2 in the bead peel test on stainless steel (V2A).

Grade 2 means: 75 % to 95 % cohesive failure.

## Storage

Store in the unopened original container at room temperature. Avoid sources of heat and direct sunlight.

## 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](http://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
- 10101992 Clip Nozzle Green Tube, 1 PCE, transparent

## Available sizes

- 10057245 Flex 310 M® Classic MS-Polymer, 200 ml, black
- 10057238 Flex 310 M® Classic MS-Polymer, 200 ml, white
- 10057240 Flex 310 M® Classic MS-Polymer, 200 ml, grey
- 10104011 Flex 310 M® Classic MS-Polymer, 280 ml (Green Tube), white
- 10104007 Flex 310 M® Classic MS-Polymer, 280 ml (Green Tube), grey
- 10103997 Flex 310 M® Classic MS-Polymer, 280 ml (Green Tube), black
- 10104049 Flex 310 M® Classic MS-Polymer, 280 Set, white
- 10104053 Flex 310 M® Classic MS-Polymer, 280 Set, grey
- 10104051 Flex 310 M® Classic MS-Polymer, 280 Set, black
- 10104240 Flex 310 M® Classic MS-Polymer, 280 ml (plastic bag), white
- 10104244 Flex 310 M® Classic MS-Polymer, 280 ml (plastic bag), black
- 10104242 Flex 310 M® Classic MS-Polymer, 280 ml (plastic bag), grey

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