

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.

Elastic adhesives and sealants MS-Polymers

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	1,44 g/cm ³
Curing condition	from +5°C to +40°C and 30% to 95% rel. air humidity
Processing temperature	+5°C to +40°C
Curing speed	in the first 24 h
Skin-over time	25 min.
Gap bridging up to max.	5 mm
Max. sealing joint width	25 mm
Tensile strength	ISO 37 / S3A
Tensile strength of the pure adhesive and sealant	ISO 37
Elongation at break (tensile)	DIN 53504/ASTM D412
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	2,1 N/mm ²
Tear resistance	DIN 53515 / ASTM D 1002
Volume change	DIN 52451
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	> 10 ¹⁰ Ω-cm
Dielectric strength	DIN EN 60243-1 (20°C)
Tracking resistance	DIN EN 60112
Building material class	DIN 4102
Minimum shelf life	at room temperature

Approvals / Guidelines

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.

WEICON Middle East L.L.C.
United Arab Emirates
phone +971 4 880 25 05
info@weicon.ae

WEICON Inc.
Canada
phone +1 877 620 8889
info@weicon.ca

WEICON Czech Republic s.r.o.
Czech Republic
phone +42 (0) 417 533 013
info@weicon.cz

WEICON Ibérica S.L.
Spain
phone +34 (0) 914 7997 34
info@weicon.es

WEICON GmbH & Co. KG
(Headquarters) Germany
phone +49 (0) 251 9322 0
info@weicon.de

WEICON Italia S.r.L.
Italy
phone +39 (0) 10 2924 871
info@weicon.it

WEICON Romania SRL
Romania
phone +40 (0) 3 65 730 763
office@weicon.com

WEICON SA (Pty) Ltd
South Africa
phone +27 (0) 21 709 0088
info@weicon.co.za

WEICON South East Asia Pte Ltd
Singapore
Phone (+65) 6710 7671
info@weicon.com.sg

WEICON Kimya Sanayi Tic. Ltd. Şti.
Türkiye
phone +90 (0) 212 465 33 65
info@weicon.com.tr

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Elastic adhesives and sealants

MS-Polymers

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 and 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) 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

To the product detail page:



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