

WEICON Green Tube Flex 310 M F1X



strong adhesion | universally applicable | isocyanate-free

WEICON Flex 310 M F1X is an elastic adhesive and sealant based on MS polymer. The grey adhesive is very strong and universally suitable for permanently fixing almost all materials to a variety of surfaces. Thanks to the very high initial adhesion, bonding is possible on vertical surfaces and even overhead, both indoors and outdoors. For example, Flex 310 M F1X can be used to bond metals, many plastics, ceramics, wood, glass and stone to each other.

The permanently elastic adhesive can be painted over “wet on wet”, is sandable, weather-resistant, moisture-resistant, ageing-resistant, mould-resistant and UV-resistant. It is briefly (up to 30 minutes) resistant to temperatures up to 180°C and can be powder-coated after a curing time of four days.

The adhesive and sealant is free of silicone, isocyanates, halogens and solvents and is non-corrosive.

Flex 310 M F1X can be used for fixing skirting boards, acoustic panels, strips, frames, panels, boards, tiles, stones and EPDM foil.

It can be used in drywall and interior construction, metal construction, tank and apparatus construction, container construction, ventilation and air conditioning technology, trade fair and shop construction, yacht and boat building and wherever silicones or products containing silicone are not suitable.

Eco-friendly packaging – same strong performance!

Green Tube, the sustainable packaging: the tip and lid are made from 100% recycled plastic, and the cartridge body is made entirely of cardboard. This means lower CO₂ emissions and reduced plastic use compared to conventional cartridges – all without compromising on performance!

Characteristics

Base	1C MS-polymer	
Texture	pasty	
Cure type	moisture-curing	
Can be painted	only "wet on wet" within 3 h at the latest	
Stability/run-off	1 mm	
Building material class	DIN 4102	B 2
Minimum shelf life	at room temperature	18 mon.

Processing

Curing condition	from +5°C to +40°C and 30% to 95% rel. air humidity	
Curing speed	in the first 24 h	2-3 mm
Density	1,5 g/cm ³	
Max. sealing joint width	30 mm	
Gap bridging up to max.	10 mm	

Curing

Skin-over time	10 min.	
----------------	---------	--

Mechanical properties after curing

Tensile strength	DIN EN ISO 527-2	1,6 N/mm ²
Elongation at break (tensile)	DIN EN ISO 527-2	121 %
E-modulus (tensile)	DIN EN ISO 527-2	0,7 N/mm ²
Tear resistance	DIN 53515 / ASTM D 1002	13 kN/m
Hardness (Shore A)	DIN ISO 7619-1	56

Shear strength according to DIN EN 1465

Galvanized steel	1,5 N/mm ²
Aluminium sandblasted	1,6 N/mm ²
Stainless steel V2A sandblasted	1,5 N/mm ²
Medium lap shear strength (DIN EN 1465/ ASTM D 1002)	1,5 N/mm ²

Volume change	DIN 52451	-2 %
---------------	-----------	------

Thermal parameters

Temperature resistance	-40°C to +90°C (30 min. +180 °C)	
------------------------	----------------------------------	--

Surface Pre-Treatment

The surfaces must be clean and free of grease. Many surface contaminants, such as oil, grease, dust and dirt, can be removed with WEICON Surface Cleaner. For heavily soiled metal surfaces, we recommend the use of WEICON Cleaner Spray S.

WEICON Sealant and Adhesive Remover is suitable for removing old paint residues or adhesive residues. Most materials can be bonded to each other. For certain materials or special requirements, we recommend the use of a bonding agent (primer) or of WEICON Activating Cleaner. Mechanical surface pre-treatment, e.g. by grinding or sandblasting, can also significantly improve adhesion.

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.

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

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

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

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

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

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

WEICON Italia S.r.l.
Italy
phone +39 (0) 010 2924 871
info@weicon.it

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

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

WEICON Green Tube Flex 310 M F1X

Elastic adhesives and sealants
MS-Polymers

Remove the lid and cartridge tip. Then carefully cut open the foil bag directly below the clip. Put the lid back on and screw on the tip. Cut the tip of the cartridge to the desired joint width. The cartridge can now be processed with the cartridge gun.

Joining the components

To ensure optimum wetting, the bonded parts must be joined before the first skin has formed on the adhesive (skin formation time).

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

- 10101992 Clip Nozzle Green Tube, 1 PCE, transparent
- 10059792 Pressure gun Airflow 3, 1 PCE
- 10025241 V-Joint Nozzle, 1 PCE
- 10020751 Cartridge Gun Special, 1 PCE
- 10000441 Cartridge Gun, 1 PCE
- 10024313 Surface Cleaner, 400 ml, transparent
- 10000147 Cleaner Spray S, 500 ml, transparent
- 10062859 Activating Cleaner, 400 ml, transparent

Available sizes

- 10104253 WEICON Green Tube Flex 310 M F1X, 280 ml (plastic bag), grey
- 10104458 WEICON Green Tube Flex 310 M F1X, 280 Set, grey

Conversion table

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$	$\text{Nm} \times 8.851 = \text{lb}\cdot\text{in}$
$\text{mm}/25.4 = \text{inch}$	$\text{Nm} \times 0.738 = \text{lb}\cdot\text{ft}$
$\mu\text{m}/25.4 = \text{mil}$	$\text{Nm} \times 141.62 = \text{oz}\cdot\text{in}$
$\text{N} \times 0.225 = \text{lb}$	$\text{mPa}\cdot\text{s} = \text{cP}$
$\text{N}/\text{mm}^2 \times 145 = \text{psi}$	$\text{N}/\text{cm} \times 0.571 = \text{lb}/\text{in}$
$\text{MPa} \times 145 = \text{psi}$	$\text{kV}/\text{mm} \times 25.4 = \text{V}/\text{mil}$

To the product detail page:



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

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

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

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

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

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

WEICON Italia S.r.l.
Italy
phone +39 (0) 010 2924 871
info@weicon.it

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

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