Elastic adhesives and sealants
MS-Polymers

Green Tube Flex 310 M F1X



strong adhesion | universally applicable | isocyanate-free

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 CO_2 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 after		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/cm³
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/mm²
Elongation at break (tensile)	DIN EN ISO 527-2	121 %
E-modulus (tensile)	DIN EN ISO 527-2	0,7 N/mm²
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/mm²
Aluminium sandblasted		1,6 N/mm²
Stainless steel V2A sandblasted		1,5 N/mm²
Medium lap shear strength (DIN EN 1465/ ASTM D 1002)		1,5 N/mm²
Volume change	DIN 52451	-2 %
Thermal parameters		
Temperature resistance		-40°C to +90°C (30 min. +180 °C)

Surface pretreatment

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

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

Hand-operated caulking gun for 310 ml cartridges, pneumatic caulking gun (we recommend only a piston-rod version, such as the pneumatic caulking gun), or automatic dispensing 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
(Headquaters) 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 Colombia S.A.S
Colombia
Phone: +57 314 793 86 06
Email: info@weicon.co

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

Green Tube Flex 310 M F1X

Remove the cap and cartridge tip. Then carefully cut open the foil pouch directly below the seal. Replace the cap and screw on the tip. Cut the cartridge tip to the desired joint width. The cartridge can now be used with the caulking gun.

Joining the Adhesive Parts

To ensure optimal wetting, the adhesive parts must be joined before the first skin forms 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

10104493	Green Tube Flex 310 M F1X, 1 Set (10 x 280ml), grey
10104253	Green Tube Flex 310 M F1X, 280 ml (plastic bag), grey
10104458	Green Tube Flex 310 M F1X, 280 ml (Set), grey

Conversion table

(°C x 1.8) + 32 = °F	Nm x 8.851 = lb·in
mm/25.4 = inch	Nm x 0.738 = lb·ft
µm/25.4 = mil	Nm x 141.62 = oz·in
N x 0.225 = lb	mPa·s = cP
N/mm^2 x 145 = psi	N/cm x 0.571 = lb/in
MPa x 145 = psi	kV/mm x 25.4 = V/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
(Headquaters) 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 Colombia S.A.S
Colombia
Phone: +57 314 793 86 06
Email: info@weicon.co

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