

Solar-Flex® MS-Polymer



Especially for the solar industry

WEICON Solar-Flex is strong, non-corrosive, paintable (wet-on-wet), weather-resistant and resistant to UV rays. It is free of silicone, isocyanate, halogens and solvents. Solar-Flex is an elastic adhesive based on MS polymer specially developed for the solar industry. Both the very high initial bonding power and the fast development of adhesive strength enable bondings even on vertical surfaces. Replaces traditional fixings in the assembly of solar and photovoltaic power systems.

Technical Data

Base	1-C. MS polymer
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	1,62 g/cm ³
Processing temperature	from +5°C to +40°C and 30% to 95% rel. air air humidity
Curing speed	+5°C to +35°C
Skin-over time	in the first 24 h
Gap bridging up to max.	2 - 3 mm
Max. sealing joint width	10 min.
Tensile strength	30 mm
Tensile strength of the pure adhesive and sealant	ISO 37 / S3A
Elongation at break (tensile)	1,9 N/mm ²
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	ISO 37
Tear resistance	1,9 N/mm ²
Volume change	DIN 53504/ASTM D412
Hardness (Shore A)	13 kN/m
Temperature resistance	DIN 53515 / ASTM D 1002
Building material class	-40°C to +90°C
Minimum shelf life	DIN 4102
Approvals / Guidelines	B 2
ISSA Code	at room temperature
IMPA Code	12 mon.
MIL-Spec	complies with
	75.628.31
	815204
	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.

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. 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

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

- 10105037 Solar-Flex® MS-Polymer, 280 ml (plastic bag),
grey
- 10105039 Solar-Flex® MS-Polymer, 280 ml (Green Tube),
grey
- 10105042 Solar-Flex® MS-Polymer, 280 ml (Set), grey
- 10105044 Solar-Flex® MS-Polymer, 280 ml (Set), white
- 10105046 Solar-Flex® MS-Polymer, 280 ml (Green Tube),
white
- 10105049 Solar-Flex® MS-Polymer, 280 ml (Set), white

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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) 010 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