

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.

Characteristics

Base	1C MS-polymer	
Texture	pasty	
Cure type	moisture-curing	
Can be painted	only "wet into the wet" within 3 h at the latest	
Stability/run-off	ASTM D 2202	1.0 mm
Building material class	DIN 4102	B 2
Minimum shelf life	at room temperature	12 mon.

Processing

Curing condition	from +5°C to +40°C and 30% to 95% rel. air air humidity	
Curing speed	in the first 24 h	2 -3 mm
Density	1,62 g/cm ³	
Max. sealing joint width	30 mm	
Gap bridging up to max.	10 mm	

Curing

Skin-over time	10 min.
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Mechanical properties after curing

Tensile strength	ISO 37	1,9 N/mm ²
Elongation at break (tensile)	DIN 53504/ASTM D412	600 %
Tear resistance	DIN 53515 / ASTM D 1002	13 kN/m
Hardness (Shore A)	DIN ISO 7619	50±5
Shear strength according to DIN EN 1465		
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
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Approvals / Guidelines

ISSA Code	75.628.31
IMPA Code	815204

Surface Pre-Treatment

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

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.

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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Accessories

10025241	V-Joint Nozzle, 1 PCE
10020751	Cartridge Gun Special, 1 PCE
10000441	Cartridge Gun, 1 PCE
10101992	Clip Nozzle Green Tube, 1 PCE, transparent
10059792	Pressure gun Airflow 3, 1 PCE

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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