

Solar-Flex®



developed for solar industry

WEICON Solar-Flex® is strong, non-corrosive, overpaintable (wet in wet), weather-resistant and resistant to UV rays. It is free of silicone, isocyanate, halogens and solvents. WEICON Solar-Flex® is an elastic adhesive on a MS polymer basis specially developed for the solar industry.

Both the very high initial bonding power and the fast development of adhesive strength enable bonds to be achieved even on vertical surfaces. Replaces traditional fixings in the assembly of solar and photovoltaic power systems.



Technical Data

Base	1 C.-MS Polymer
density	1,62 g/cm ³
Viscosity adhesive	paste
Stability/Run-off (ASTM D 222)	< 1 mm
Processing temperature	+5 to +35 °C
Cure type	By humidity
Curing condition	+5 to +40°C and 30% to 95% rel. humidity
Skin-overtime*	10 min.
Curing speed (first 24h)	2 -3 mm
Volume change (DIN 52451)	-2 %
Gap filling up to max.	10 mm
Gap width up to max.	30 mm
Shelf life (+5°C to +25°C / +41°F to +77°F)	12 months
Shore A hardness (DIN 5355 / ASTM D 224) ± 5	50
Elongation at break (DIN 53504/ASTM D 2240) ± 5	600 %
Tensile strength of pure adhesive and sealant	1,9 N/mm ²

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.

Average tensile shear strength (DIN EN 1465/ ASTM D 12)	1,5 N/mm ²
Tear strength (DIN 53515/ASTM D 1002)	13 N/mm ²
Movement capacity max.	20 %
Overpaintable (liquid paint)	only „wet in wet“, within 3 hrs.
Building material category (DIN 412)	B 2
Temperature resistance	-40 to +90 °C

*Measured at 50% relative air humidity and +23°C

Surface pre-treatment

The surfaces must be clean and free of grease. Many surface contaminants, e.g. oil, dust and dirt, can be removed with WEICON Surface Cleaner. For heavily soiled metal surfaces, we recommend WEICON Cleaner Spray S; WEICON Sealant and Adhesive Remover is suitable for removing old paint or adhesive residues. Most materials can be bonded well to themselves and among each other. For certain materials or extreme requirements, we recommend the use of an adhesion agent (primer). Detailed information on this subject is contained in the primer selection table. A mechanical surface pre-treatment, e.g. sanding or sand-blasting, can considerably improve the adhesion.

Processing

Application methods

Professional cartridge gun for 310 ml cartridges, compressed air gun (we recommend a variation with piston rod), automatic dosing systems.

Joining the parts to be bonded

To ensure optimal wetting, the parts must be joined before the first skin has been formed on the adhesive (skin-overtime).

Storage

When unopened and stored at room temperature (+23°C and 50 % rel. humidity), WEICON elastic one-component adhesives and sealants have a shelf life of 12 months.

Safety and health

When using WEICON products, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Available sizes:

13750290 Solar-Flex® 290 ml white

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Technical Datasheet

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13752290 Solar-Flex® 290 ml grey

Accessories:

13250000	Cartridge Cutter, 310 ml
13250001	Cartridge Gun,
13250002	Cartridge Gun Special,
13250009	Compressed Air Cartridge Gun,
13955031	V-Joint Nozzle,

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