

Speed-Flex® MS-Polymer



Replaces traditional fixings | ISEGA-certified

WEICON Speed-Flex is very strong, pasty, stable, paintable (wet in wet), resistant to ageing, weathering, and UV rays and free of silicone, isocyanate, halogen and solvents. WEICON Speed-Flex has an ISEGA certificate and can be used as an adhesive in the food technology.

It is an adhesive and sealant based on MS polymer with extremely high initial strength and is suitable for the bonding of metals, many plastics, ceramics, wood, glass and stone.

Speed-Flex replaces traditional fixings such as screws, pegs, rivets, etc. The very high initial strength makes bonding possible even on vertical surfaces in indoor and outdoor areas.

The product can be used for drywall and interior work, metal construction, tank and apparatus engineering, in ventilation and air conditioning systems, in exhibition construction and shopfitting and in all applications where silicones or products containing silicones are not suitable.

Characteristics

Base	1C MS-polymer	
Texture	highly 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	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		1,6 g/cm ³
Max. sealing joint width		5 mm
Gap bridging up to max.		5 mm

Curing

Skin-over time		10 min.
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Mechanical properties after curing

Tensile strength	ISO 37	2,2 N/mm ²
Elongation at break (tensile)	DIN 53504/ASTM D412	230 %
Tear resistance	DIN 53515 / ASTM D 1002	10 kN/m
Hardness (Shore A)	DIN ISO 7619	58±5
Shear strength according to DIN EN 1465		
Medium lap shear strength (DIN EN 1465/ ASTM D 1002)		1,3 N/mm ²
Volume change	DIN 52451	-1 %

Thermal parameters

Temperature resistance	-40 °C to briefly +80 °C (approx. 2 h) +120 °C	
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Electrical parameters

Resistance	1,4 x 10 ¹¹ Ω·m	
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Approvals / Guidelines

ISSA Code	75.509.21	
IMPA Code	812947	

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

Professional cartridge gun for 310 ml cartridges (WEICON Cartridge Gun "Special"), compressed air gun (we recommend a version with piston rod), automatic dosing systems.

Joining the components

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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Ageing

The test specimens were artificially aged according to DIN ISO 21194, Annex A, to assess their long-term durability.

After artificial ageing, Speed-Flex with Primer K 200 or Activating Cleaner achieved grade 2 in the bead peel test on aluminium.

Grade 2 means: 75 % to 95 % cohesive failure.

After artificial ageing, Speed-Flex with Primer K 200 or Activating Cleaner achieved grade 1 in the bead peel test on stainless steel (V2A).

Grade 1 means: more than 95% cohesive failure and less than 5% adhesive failure in the form of the adhesive peeling off the contact surface.

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
- 10059792 Pressure gun Airflow 3, 1 PCE
- 10020751 Cartridge Gun Special, 1 PCE
- 10000441 Cartridge Gun, 1 PCE

Available sizes

- 10104943 Speed-Flex® MS-Polymer, 280 ml (Green Tube), white
- 10104946 Speed-Flex® MS-Polymer, 280 ml (Set), white
- 10104953 Speed-Flex® MS-Polymer, 280 ml (Green Tube), grey
- 10104956 Speed-Flex® MS-Polymer, 280 ml (Set), grey
- 10104963 Speed-Flex® MS-Polymer, 280 ml (Green Tube), black
- 10104966 Speed-Flex® MS-Polymer, 280 ml (Set), black

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