

# 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.

## Technical Data

Base	1 C. polyoxypropylene	
Texture	highly 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	1.0 mm
Density	1,6 g/cm <sup>3</sup>	
Curing condition	from +5 °C to +40 °C and 30% to 95% rel. air humidity	
Processing temperature	+5 °C to +35 °C	
Curing speed	in the first 24 h	2 -3 mm
Skin-over time	10 min.	
Gap bridging up to max.	5 mm	
Max. sealing joint width	5 mm	
Tensile strength	ISO 37 / S3A	2,2 N/mm <sup>2</sup>
Tensile strength of the pure adhesive and sealant	ISO 37	2,2 N/mm <sup>2</sup>
Elongation at break (tensile)	DIN 53504/ASTM D412	230 %
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	1,3 N/mm <sup>2</sup>	
Tear resistance	DIN 53515 / ASTM D 1002	10 kN/m
Volume change	DIN 52451	-1 %
Hardness (Shore A)	DIN ISO 7619	58±5
Temperature resistance	-40 °C to briefly +80 °C (approx. 2 h) +120 °C	
Resistance	1,4 x 10 <sup>11</sup> Ω·m	
Building material class	DIN 4102	B 2
Minimum shelf life	at room temperature	12 mon.

## Approvals / Guidelines

ISSA Code	75.509.21
IMPA Code	812947

## 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.

## Processing

### 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

## 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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In order to guarantee an ideal wetting, the bonding parts need to be joined, before the adhesive skins over (skin-over time).

## 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](http://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

## Available sizes

- 10019651 Speed-Flex® MS-Polymer, 310 ml, white
- 10019652 Speed-Flex® MS-Polymer, 310 ml, black
- 10019653 Speed-Flex® MS-Polymer, 310 ml, grey

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