

# Speed-Flex® Crystal MS-Polymer



## Crystal-clear adhesion | ISEGA-certified

WEICON Speed-Flex Crystal replaces traditional fixings like screws, pegs, rivets etc. Due to the very high initial adhesion bonding is possible even on vertical surfaces both in-house and outside. Particularly suitable for optically demanding bondings when the adhesive bead is not to be visible. Thus e.g. transparent plastics, acrylic glass or other materials can be bonded rapidly, neatly and attractively among each other. 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 many other areas. The adhesive and sealant is very strong, pasty, stable, resistant to ageing, weathering and UV rays and free of silicone, isocyanate and halogen. ISEGA-certified for use in food technology.

### 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 humidity	
Curing speed	in the first 24 h	2 -3 mm
Density	1,06 g/cm <sup>3</sup>	
Max. sealing joint width	25 mm	
Gap bridging up to max.	5 mm	

### Curing

Skin-over time	10 min.	
----------------	---------	--

### Mechanical properties after curing

Tensile strength	ISO 37	3 N/mm <sup>2</sup>
Tensile strength of the pure adhesive and sealant	ISO 37	3 N/mm <sup>2</sup>
Elongation at break (tensile)	DIN 53504/ASTM D412	300 %
Tear resistance	DIN 53515 / ASTM D 1002	19 kN/m
Hardness (Shore A)	DIN ISO 7619	40±5
Shear strength according to DIN EN 1465		
Medium lap shear strength (DIN EN 1465/ ASTM D 1002)	2 N/mm <sup>2</sup>	
Volume change	DIN 52451	-3 %

### Thermal parameters

Temperature resistance	-40 °C to briefly +90 °C (approx. 2 h) +120 °C	
------------------------	--	--

### Electrical parameters

Resistance	0,9 x 10 <sup>12</sup> Ω·m	
Specific resistance	0,9 x 10 <sup>12</sup> Ω·cm	

### 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 pressure gun for 310 ml cartridges (WEICON Cartridge Gun "Special") Compressed-air gun, we recommend a variant with piston rod (WEICON Compressed-Air Cartridge Gun), automatic dispensing systems Joining the adhesive parts To ensure optimum wetting, the adhesive parts must be joined before the first skin has formed on the adhesive (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.

# Speed-Flex<sup>®</sup> Crystal MS-Polymer

Elastic adhesives and sealants

## MS-Polymers

### 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

- 10104973 Speed-Flex<sup>®</sup> Crystal MS-Polymer, 280 ml (Green Tube)
- 10104976 Speed-Flex<sup>®</sup> Crystal MS-Polymer, 280 ml (Set)

To the product detail page:



#### 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.

WEICON Middle East L.L.C.  
United Arab Emirates  
phone +971 4 880 25 05  
info@weicon.ae

WEICON Czech Republic s.r.o.  
Czech Republic  
phone +42 (0) 417 533 013  
info@weicon.cz

WEICON GmbH & Co. KG  
(Headquarters) Germany  
phone +49 (0) 251 9322 0  
info@weicon.de

WEICON Romania SRL  
Romania  
phone +40 (0) 3 65 730 763  
office@weicon.com

WEICON South East Asia Pte Ltd  
Singapore  
Phone (+65) 6710 7671  
info@weicon.com.sg

WEICON Inc.  
Canada  
phone +1 877 620 8889  
info@weicon.ca

WEICON Ibérica S.L.  
Spain  
phone +34 (0) 914 7997 34  
info@weicon.es

WEICON Italia S.r.l.  
Italy  
phone +39 (0) 010 2924 871  
info@weicon.it

WEICON SA (Pty) Ltd  
South Africa  
phone +27 (0) 21 709 0088  
info@weicon.co.za

WEICON Kimya Sanayi Tic. Ltd. Şti.  
Türkiye  
phone +90 (0) 212 465 33 65  
info@weicon.com.tr