

# Speed-Flex® Crystal MS-Polymer



## crystal-clear adhesion

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.

WEICON Speed-Flex Crystal can be used for drywall and interior work, metal construction, tank and apparatus engineering, in ventilation and air conditioning systems, in exhibition stand construction and shopfitting and in many other cases.

WEICON Speed-Flex Crystal is very strong, pasty, stable, resistant to ageing, weathering and UV rays and is free of silicone, isocyanate and halogen. ISEGA certificate for use in food technology.



## Technical Data

Composition	1 C.-Polyoxypropylene
density	1,06 g/cm <sup>3</sup>
Viscosity adhesive	pasty
Stability/Run-off (ASTM D 222)	< 1 mm
Processing temperature	+5 to +40 °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)	-3 %

### Note

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Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelf life (+5°C to +25°C / +41°F to +77°F)	12 months
Shore A hardness (DIN 5355 / ASTM D 224) ± 5	40
Elongation at break (DIN 53504/ASTM D 2240) ± 5	300 %
Tensile strength of pure adhesive and sealant	3,0 N/mm <sup>2</sup>
Average tensile shear strength (DIN EN 1465/ ASTM D 12)	2,0 N/mm <sup>2</sup>
Specific resistance	0,9 x 10 <sup>12</sup> Ohm/cm
Tear strength (DIN 53515/ASTM D 1002)	19 N/mm <sup>2</sup>
Movement capacity max.	20 %
Overpaintable (liquid paint)	only „wet in wet“, within 3 hrs. at the latest
Building material category (DIN 412)	B 2
Specific forward resistance	0,9 x 10 <sup>12</sup> Ohm/cm
Layer thickness	2,5 mm
Temperature resistance	-40 to +90 briefly (approx. 2 h) to +120 °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 (WEICON Cartridge Gun "special"), compressed air gun we recommend a variation with piston rod (WEICON Cartridge Gun) , 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](http://www.weicon.com)) must be observed.

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

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

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

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

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

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

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

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

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

WEICON Italia S.r.l.  
Italy  
phone (+39) 0102924871  
info@weicon.it  
www.weicon.it

**Available sizes:**

13608310 Speed-Flex® Crystal MS-Polymer 310 ml

**Accessories:**

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

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 phone +1 877 620 8889  
 info@weicon.ca  
 www.weicon.ca

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

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

WEICON SA (Pty) Ltd  
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 phone +27 (0) 21 709 0088  
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 Singapore  
 phone (+65) 6710 7671  
 info@weicon.com.sg

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

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

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 Italy  
 phone (+39) 0102924871  
 info@weicon.it  
 www.weicon.it