

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.

Technical Data

Base	1 C. polyoxypropylene
Texture	pasty
Paintable	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	1,06 g/cm ³
Curing condition	from +5°C to +40°C and 30% to 95% rel. air humidity
Processing temperature	+5°C to +40°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	25 mm
Tensile strength	ISO 37 / S3A 3 N/mm ²
Tensile strength of the pure adhesive and sealant	ISO 37 3 N/mm ²
Elongation at break (tensile)	DIN 53504/ASTM D412 300 %
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	2 N/mm ²
Tear resistance	DIN 53515 / ASTM D 1002 19 kN/m
Volume change	DIN 52451 -3 %
Hardness (Shore A)	DIN ISO 7619 40±5
Temperature resistance	-40 °C to briefly +90 °C (approx. 2 h) +120 °C
Resistance	0,9 x 10 ¹² Ω·m
Specific resistance	0,9 x 10 ¹² Ω·cm
Building material class	DIN 4102 B 2
Shelf life	12 mon.

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.

Processing

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

When unopened and stored in normal climate (+23°C and 50 % rel. air humidity), WEICON Elastic Adhesives and Sealants have a shelf life of 12 months.

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
- 10033114 Compressed Air Cartridge Gun, 1 PCE
- 10020751 Cartridge Gun Special, 1 PCE
- 10000441 Cartridge Gun, 1 PCE

Available sizes

- 10039109 Speed-Flex® Crystal MS-Polymer, 310 ml

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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.