

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	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	1,06 g/cm ³	
Max. sealing joint width	25 mm	
Gap bridging up to max.	5 mm	

Note

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Curing

Skin-over time	10 min.	
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Mechanical properties after curing

Tensile strength	ISO 37	3 N/mm ²
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 ²	
Volume change	DIN 52451	-3 %

Thermal parameters

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

Resistance	0,9 x 10 ¹² Ω·m	
Specific resistance	0,9 x 10 ¹² 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.

Speed-Flex[®] 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[®] Crystal MS-Polymer, 280 ml (Green Tube)
- 10104976 Speed-Flex[®] Crystal MS-Polymer, 280 ml (Set)

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