

# Flex 310 M<sup>®</sup> Crystal MS-Polymer



## Crystal-clear after curing | ISEGA-certified

WEICON Flex 310 M Crystal is transparent, strong, paintable (wet-on-wet), sandable, has an outstanding resistance to ageing and good resistance to UV rays. It contains no silicone, isocyanate, halogens or solvents. It has an ISEGA certificate and can be used as an adhesive in the food technology. Flex 310 M Crystal is an elastic adhesive suitable for bonding glass, PC\* and acrylic glass\*, metals, many plastics, ceramics, wood and stone. The product is crystal clear after curing and is particularly suited for elastic joints where the adhesive should or must not be visible. It can be used in plastic processing, metal construction, tank and apparatus engineering, in ventilation and air conditioning systems, the electrical and lighting industry, in exhibition stand construction and shopfitting, and in all applications where silicones or products containing silicones are not suitable. (\* = only for tension-free bonding)

### Technical Data

Base	1 C. polyoxypropylene	
Colour	transparent	
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 <sup>3</sup>	
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 <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 %
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	2 N/mm <sup>2</sup>	
Tear resistance	DIN 53515 / ASTM D 1002	19 kN/m
Volume change	DIN 52451	-1 %
Hardness (Shore A)	DIN ISO 7619	40±5
Temperature resistance	-40 °C to briefly +90 °C (approx. 2 h) +120 °C	
Resistance	1,2 x 10 <sup>12</sup> Ω·m	
Specific resistance	1,2 x 10 <sup>14</sup> Ω·cm	
Building material class	DIN 4102	B 2
Shelf life	12 mon.	

### Approvals / Guidelines

ISSA Code	75.509.22
IMPA Code	812910

### 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 Cartridge gun for 310 ml cartridges, compressed air gun, we recommend a version with piston rod (WEICON Compressed Air Cartridge Gun), automatic dosing

#### 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.  
Turkey  
phone +90 (0) 212 465 33 65  
info@weicon.com.tr

# Flex 310 M<sup>®</sup> Crystal MS-Polymer

Elastic adhesives and sealants  
**MS-Polymers**

systems. Joining the components in order to guarantee and ideal wetting, the bonding parts need to be joined, before the adhesive skins over (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

- 13955031 V-Joint Nozzle, 1 PCE
- 13250009 Compressed Air Cartridge Gun, 1 PCE
- 13250002 Cartridge Gun Special, 1 PCE
- 13250001 Cartridge Gun, 1 PCE

## Available sizes

- 13308310 Flex 310 M<sup>®</sup> Crystal MS-Polymer, 310 ml, transparent
- 13308200 Flex 310 M<sup>®</sup> Crystal MS-Polymer, 200 ml, transparent

## Conversion table

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$	$\text{Nm} \times 8.851 = \text{lb}\cdot\text{in}$
$\text{mm}/25.4 = \text{inch}$	$\text{Nm} \times 0.738 = \text{lb}\cdot\text{ft}$
$\mu\text{m}/25.4 = \text{mil}$	$\text{Nm} \times 141.62 = \text{oz}\cdot\text{in}$
$\text{N} \times 0.225 = \text{lb}$	$\text{mPa}\cdot\text{s} = \text{cP}$
$\text{N}/\text{mm}^2 \times 145 = \text{psi}$	$\text{N}/\text{cm} \times 0.571 = \text{lb}/\text{in}$
$\text{MPa} \times 145 = \text{psi}$	$\text{kV}/\text{mm} \times 25.4 = \text{V}/\text{mil}$

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.  
Turkey  
phone +90 (0) 212 465 33 65  
info@weicon.com.tr