# WEICON

#### Elastic adhesives and sealants

# **MS-Polymers**

# 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)

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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 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/mm²
Tensile strength of the pure adhesive and sealant	ISO 37	3 N/mm²
Elongation at break (tensile)	DIN 53504/ASTM D412	300 %
Medium lap shear strength (DIN EN	N 1465/ASTM D 1002)	2 N/mm²
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 10^12 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 soilings, 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

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 requested properties are recommended. A claim cannot be derived from them.

#### Date of issue:21.12.2023

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Elastic adhesives and sealants

W E I C O N

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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**

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

10033740	Flex 310 M <sup>®</sup>	Crystal	MS-Polymer,	310	ml,
	transparent				
10057247	Flex 310 M <sup>®</sup>	Crystal	MS-Polymer,	200	ml,
	transparent				

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# Conversion table (00 × 1 0) · 00 °F

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mm/25.4 = inch	$Nm \times 0.738 = Ib \cdot ft$
$\mu$ m/25.4 = mil	Nm x 141.62 = oz∙in
N x 0.225 = lb	mPa⋅s = cP
$N/mm^2 x 145 = psi$	$N/cm \times 0.571 = Ib/in$
MPa x 145 = psi	$kV/mm \times 25.4 = V/mil$



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