

# Flex 310 M<sup>®</sup> ProSeal



## Multi-purpose high-strength adhesive and sealant

Multi-purpose, permanently elastic, fast-curing and high-strength 1-C adhesive and sealant based on SMP. Neutral curing, entirely weather-resistant, very low emissions and odour as well as free of silicone, isocyanate and solvents. Tested and approved for applications in food-related areas and for ventilation and air-conditioning systems in accordance with VDI 6022. Meets the requirements of the International Maritime Organisation IMO FTPC Parts 2+5. WEICON Flex 310 M ProSeal adheres very well even to powder-coated, painted, galvanised, anodised, chromated and hot-dip galvanised surfaces. Adhesion range: metal, plastics, natural stone, concrete, masonry, plaster, wooden floors, glass, and many more. The sealant has a high mould resistance, is compatible with natural stone and can be used in many areas, such as food and beverage production, air conditioning and ventilation construction, the maritime industry, sanitary facilities, or the construction industry. Moreover, WEICON Flex 310 M ProSeal can be used in other industrial areas, such as in tank and apparatus construction, in car bodywork, container and vehicle construction, in pipeline and fittings construction, in the energy and electrical industries, in sound insulation and insulation technology and in plastics technology.

### Technical Data

Base	Silane-modified polymer	
Colour	grey	
Cure type	moisture-curing	
Density	(+20°C) DIN 51757	1.48 ± 0.05 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	25 min.	
Gap bridging up to max.	5 mm	
Max. sealing joint width	40 mm	
Tensile strength	ISO 37	1,6 N/mm <sup>2</sup>
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	1,4 N/mm <sup>2</sup>	
Elongation at break (tensile)	DIN 53504/ASTM D412	600 %
Movement absorption max.	20 %	
Hardness (Shore A)	DIN ISO 7619	32
Temperature resistance	-40°C to +90°C	
Building material class	EN 13501-1	E
Shelf life	18 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 Cartridge gun for 310 ml cartridges, compressed air gun, we recommend a version with piston rod (WEICON Compressed Air Cartridge Gun), automatic dosing systems. Joining the components In order to guarantee an 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 18 months.

### Safety and health

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets ([www.weicon.com](http://www.weicon.com)) must be observed.

#### 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.

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## 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:

### Conversion table

$(^{\circ}\text{C} \times 1,8) + 32 = ^{\circ}\text{F}$	$\text{Nm} \times 8,851 = \text{lb}\cdot\text{in}$
$\text{mm}/25,4 = \text{inch}$	$\text{Nm} \times 0,738 = \text{lb}\cdot\text{ft}$
$\mu\text{m}/25,4 = \text{mil}$	$\text{Nm} \times 141,62 = \text{oz}\cdot\text{in}$
$\text{N} \times 0,225 = \text{lb}$	$\text{mPa}\cdot\text{s} = \text{cP}$
$\text{N}/\text{mm}^2 \times 145 = \text{psi}$	$\text{N}/\text{cm} \times 0,571 = \text{lb}/\text{in}$
$\text{MPa} \times 145 = \text{psi}$	$\text{kV}/\text{mm} \times 25,4 = \text{V}/\text{mil}$

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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