

Flex 310 M[®] Liquid black



Liquid | self-levelling | ISEGA-certified

Flex 310 M Liquid black is a self-levelling, 1-component casting and coating mass based on polyoxypropylene. The product is permanently elastic and paintable after curing. The flexible adhesive and sealant cures odourless, is resistant to weather and UV rays, has an excellent resistance to ageing and is free of silicone. Flex 310 M Liquid black can be used in various applications for the bonding and sealing of many different materials such as metals, many plastics, ceramics, wood, glass or stone and for insulation and impregnation. The flexible adhesive and sealant can also 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.

Characteristics

Base	1C MS-polymer	
Texture	liquid	
Colour	black	
Cure type	moisture-curing	
Can be painted	Wet paints	only „wet in wet“, within 3 hrs. at the latest after material app
Minimum shelf life	at room temperature	12 mon.

Processing

Curing condition	from +5°C to +40°C and 40% to 70% rel. air air humidity	
Curing speed	in the first 24 h	2-3 mm
Viscosity	+25 °C Brookfield	20.000 mPa·s
Density	1 g/cm ³	

Curing

Skin-over time	160 min.
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Mechanical properties after curing

Tensile strength of the pure adhesive and sealant	1,5 N/mm ²	
Elongation at break (tensile)	DIN 53504/ASTM D412	400 %
Elongation at 100 %	ISO 37 S3A	0,5 N/mm ²
Hardness (Shore A)	DIN ISO 7619	20

Thermal parameters

Temperature resistance	-40 to +90°C
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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.

Application

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

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.

Accessories

10000441	Cartridge Gun, 1 PCE
10020751	Cartridge Gun Special, 1 PCE
10101992	Clip Nozzle Green Tube, 1 PCE, transparent
10059792	Pressure gun Airflow 3, 1 PCE

Available sizes

10057733	Flex 310 M [®] Liquid black, 310 ml, black
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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.

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Conversion table

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{mm}/25.4 = \text{inch}$
 $\mu\text{m}/25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N}/\text{mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$

$\text{Nm} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{Nm} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{Nm} \times 141.62 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$
 $\text{N}/\text{cm} \times 0.571 = \text{lb}/\text{in}$
 $\text{kV}/\text{mm} \times 25.4 = \text{V}/\text{mil}$

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