

Flex 310 M[®] FireSeal



Permanently elastic adhesive and sealant with a fire resistance up to 120 minutes

Flex 310 M FireSeal is a permanently elastic adhesive and sealant based on SMP with a fire resistance up to 120 minutes. Tested and classified for all joint structures according to EN 1366-4. The paint-compatible sealant with very low volume shrinkage meets the highest demands in terms of fire protection, such as the requirements of the International Maritime Organisation IMO FTPC Parts 2+5 as well as for rail vehicles in accordance with DIN EN 45545-2 R22/23 HL3. The very low emissions allow safe indoor application. Flex 310 M FireSeal adheres very well even to powder-coated, painted, galvanised, anodised, chromated and hot-dip galvanised surfaces. It is suitable for use on metal, plastics, concrete and wood. The adhesive and sealant can be used in many application areas. It is suitable for fire barriers and covers, for joints in non-structural components with fire resistance requirements, for connection joints and for sealing cable ducts, pipe openings and housings. Flex 310 M FireSeal can also be used in other industrial areas, such as vehicle and body construction, container construction, apparatus and fittings construction, the energy and electrical industries, insulation technology and plastics technology.

Technical Data

Base	Silane-modified polymer	
Colour	concrete grey	
Cure type	moisture-curing	
Specific properties	150 g/m ² uncured product meet IMO certification	
Texture	pasty	
Standfestigkeit_Ablauf	DIN EN ISO 7390	≤ 3 mm
Density	1,47 g/cm ³	
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	3,0 mm
Skin-over time	~12 min.	
Tensile strength	1,5 N/mm ²	
Tensile strength of the pure adhesive and sealant	ISO 37	1,5 N/mm ²
Medium lap shear strength (DIN EN 1465/ASTM D 1002)	1,2 N/mm ²	
Elongation at break (tensile)	225 %	
Movement absorption max.	20 %	
Volume change	DIN 52451	≤ 3 %
Hardness (Shore A)	DIN ISO 7619	26
Temperature resistance	-40°C to +90°C	
Building material class	EN 13501-1	E
Fire resistance	<120 Min.	
Shelf life	18 mon.	

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 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.

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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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) 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:

- 13375310 Flex 310 M[®] FireSeal, 310 ml, concrete grey

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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