

Flex 310 PU



Adhesive and Sealant on Polyurethane basis
strong adhesion, permanently elastic, ISEAGA certified

WEICON Flex 310 PU adhesive and sealant is permanently elastic, strong, overpaintable, and resistant to weather, resistant against aging, grindable, low odor and free of silicone.

This versatile Adhesive and Sealant on Polyurethane basis (PUR) is for the bonding and sealing of numerous materials such as metals, plastics, ceramics, wood, glass and stone. Resistant against fresh and salt water as well as weak acids and alkalis.

Flex 310 PU can be used in tank and apparatus engineering, carriage, container and vehicle construction, in ventilation and air conditioning systems, the energy and electrical industry and in all applications where silicones or products containing silicones are not suitable.

Technical data

Basis	One-component polyurethane
Density	1,17 g/cm ³
Viscosity	pasty
Stability/Run-off (ASTM D 2202)	1 mm
Processing temperature	+5 bis +40 °C
Cure type	by humidity
Curing condition	+5 °C to +35 °C and 40% to 70% rel. humidity
Skin-over time	45 min.
Cure speed (first 24 h)	2-3 mm
Volume change (DIN 52451)	-6 %
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelf life (+5 °C to +25 °C)	12 months
Shore Hardness A (DIN 53505 / ASTM D 2240) ± 5	45
Elongation at break (DIN 53504 / ASTM D 412)	450 %
Tensile strength of the pure adhesive/sealant	2,0 N/mm ²
Average tensile shear strength (DIN 53283/ASTM D 1002)	1,6 N/mm ²
Tear strength (DIN 53515 / ASTM D 624)	9 N/mm
Movement capacity max.	10 %
Temperature resistance	-40 to +90 briefly (approx. 2 hrs.) up to +120 °C
Overpaintable (liquid paint)	Wet in wet or after complete curing
Building material category (DIN 4102)	B 2

*Measured at 50% relative air humidity and +23 °C

Pretreatment of the surface

The surfaces must be clean and grease-free. Many surface contaminants, e.g. oil, dust and dirt, can be removed with WEICON Surface Cleaner. For heavily soiled metal surfaces, we recommend WEICON Cleaner Spray S; WEICON Sealant and Adhesive Remover is suitable for removing old paint or adhesive residues.

Most materials can be bonded well to themselves and among each other. For certain materials or extreme requirements, we recommend the use of an adhesion agent (primer). Detailed information on this subject is contained in the Primer selection table. A mechanical surface pretreatment, e.g. sanding or sand-blasting, can considerably improve the adhesion.

Processing

WEICON elastic one-component adhesives and sealants are supplied either in tubes or in Euro cartridges (Black-Seal also in 200 ml press pack). Euro cartridges are processed with a cartridge gun or with automatic dosing systems. WEICON Speed-Flex should be applied only with professional-quality cartridge guns (WEICON Cartridge Gun "Special").

Joining the parts to be bonded

To ensure optimum wetting, the parts must be joined before the first skin has been formed on the adhesive (skin-over time).

Storage

When unopened and stored in a normal climate (+23 °C and 50 % rel. humidity), WEICON elastic one-component adhesives and sealants have a shelf life of 12 months.

Note

Any product specifications and recommendations given herein 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 warrant the continuously high quality of our products being free from defects in accordance with and subject to our General Sales Conditions. 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.

Health and Safety

When using WEICON products, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

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