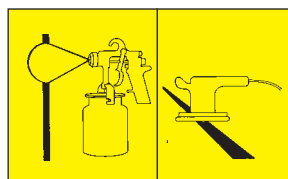
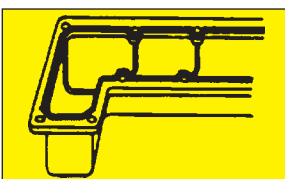
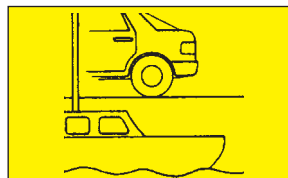
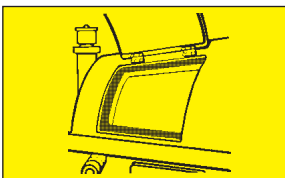




Flex 310
elastic, strong,
sandable,
overpaintable



Flex 310

WEICON Flex 310 is a 1-component structural adhesive/sealant designed to serve various requirements in many fields of industry.



Features of WEICON Flex 310 are:

- permanently tough elasticity
- excellent adhesive strength

After curing WEICON Flex 310 is:

- of neutral odour, and
- can be sanded and overpainted (wet in wet) with most of the common paint and varnish systems*.

The rapid cure makes the product ideal for use not only in repair and maintenance, but also in production and construction.



WEICON Flex 310 provides long-term resistance against

- water, seawater
- many diluted acids and alkalis.

Temporarily resists fuels, oils and greases.

For non-absorbent surfaces pre-treatment with WEICON Primer Flex (bonding agent) is required.

*referred to DIN 52452

WEICON Flex 310 bonds nearly all materials such as

- metals
- wood
- plastics
- glass, ceramics etc.

to themselves or in combination.



Applications for WEICON Flex 310 are manifold:

- tank and apparatus engineering
- car body, container and vehicle construction
- ventilation and air conditioning
- pipelines and pipe fittings
- power plants and electrical industry
- insulating and protective systems
- ship and yacht building
- many fields of plastics processing and in applications where WEICON R.T.V. Sealants are less suitable.



Characteristics:

WEICON Flex 310 are elastic adhesive/sealants with high adhesion force on the basis of polyurethane. The hardening process starts immediately after applying through the contact with air (air humidity).



Technical Data

Product	WEICON Flex 310	WEICON Primer Flex
Chemical base	1-part polyurethane	bonding agent (inc. solvents)
Colour	white, grey, black	clear, transparent
Spec. gravity g/cm ³	1,2	0,8
Viscosity	pasty, non-flow	liquid
Contents/packaging	310 ml/cartridge	500 ml can
Temperature resistance	-40°C to +90°C (briefly up to +120°C)	--
Skin-over time to DIN 50014*	approx. 45 minutes	--
Cure speed to DIN 50014*	approx. 3 mm/24 h	--
Shore A hardn. to DIN 53505	approx. 45	--
Elongation at break to DIN 53504	> 450%	--
Tensile strength to DIN 53504	approx. 2 N/mm ²	--
Tear elongation strength to ASTM D624 Form B	approx. 9 N/mm	--
Volume change to DIN 52451	approx. -6%	--
Processing temperature	+5°C up to +35°C	+10°C up to +25°C
Storage	cool and dry, max. +25°C	cool and dry, max. +25°C
Shelf life	approx. 9 months	approx. 12 months

* Standard climate +23°C and 50% relative humidity of air to DIN 50014-23/50-2

The chart below informs on the possibilities of bonding different materials with and without the use of WEICON Flex Primer. However, we generally recommend to carry out tests before application.

	Material	WEICON Flex 310	
		without Primer Flex	with Primer Flex
Metals	Aluminium	+	++
	Aluminium, anodized	++	++
	Steel/Stainless steel	+	++
	Brass	+	++
	Zinc	+	++
	Enamelled metal sheets	++	++
	Tin plate	+	++
	Copper	+	++
	Plastics	ABS	+
Glass fibre reinforced plastic		*	++
PA 6.6		+	++
PUR (TPU, RIM)		++	++
SMC		*	++
Glass	Glass	++	++
	Coated ceramics	++	++

+ = reduced adhesion
 ++ = 100% cohesive breakage
 * = partly cohesive breakage
 SMC = Sheet Moulding Compound

Important note:

All specifications, recommendations and technical data are based on laboratory tests under optimum conditions resp. on practical experience. They have been compiled most carefully. Nevertheless, a claim cannot be derived from them. We therefore recommend to carry out own tests before application. The user bears the only responsibility for non-appropriate or other than specified applications.



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