

TECHNICAL DATASHEET

## STALOC HPFLEX PLUS CONSTRUCTION ADHESIVE

### PRODUCT DESCRIPTION

STALOC HPFLEX PLUS construction adhesive is a revolutionary adhesive with excellent elongation properties and curing speed. It is suitable for all bonding processes that require a result with high performance and reliability, even under challenging circumstances. The special composition of the product and the high temperature resistance allow for powder coating of the adhesive bond.

This ensures, that the product is perfectly suitable for the automotive industry, engineering and construction as well as assembly processes. The product characteristics ensure that the product is perfectly suitable for metal-, glass- and storefront construction, the marine industry as well as the assembly of facilities for green energy (solar energy plants and wind power stations).

Due to its high viscosity and density the STALOC HPFLEX PLUS construction adhesive is used also for bonding windscreens in the automotive industry.

STALOC HPFLEX PLUS construction adhesive has an extremely high initial grab.

### PRODUCT CHARACTERISTICS

- impressive adhesion and high elasticity
- extremely high grab, rapid solidifying
- excellent UV- and ageing resistance
- resistant against water, saltwater, acids, bases and various oils and chemicals
- suitable for varnishing and coating
- odourless
- solvent-, isocyanate- and silicone-free

### AREAS OF APPLICATION



- Flexible / sealing bonds for the construction of busses, caravans, rail and truck applications
- Bonding of composite materials
- Bonding of solar systems, sunroofs and terrace products
- Component bonding of boats, yachts and vessels
- Bonding of polyester parts onto metal structures
- Excellent adhesion to steel, stainless steel, aluminium, steel alloys, galvanized steel, painted sheet metal, various kinds of plastics, ABS, PVC, polycarbonate, glass, laminated glass, insulated glass, polyester, epoxy, vinyl ester, gel coat as well as wooden substrates (e.g. teak). No grinding or primer necessary.

Before applying STALOC HPFLEX construction adhesive we recommend to use STALOC Assembly Cleaner for surface preparation.

Apply on clean, grease- and dust-free surface, without a primer. Excellent adhesion can be obtained on powder coated surfaces, metals, glass, mirrors, ceramics, non-porous surfaces in general and various plastics. The broad variety of applications of STALOC HPFLEX construction adhesive makes it necessary to determine adhesion between various substrates by experiment.

- Substrate temperature for bonding process: between +5°C and +60°C.
- Application temperature: between +5°C and +35°C.

Not suitable for bonding PE, PP, Teflon (PTFE) and bitumen-substrates.

## TECHNICAL ATTRIBUTES

ATTRIBUTE	UNIT	SPECIFICATION
chemical basis		silyl modified polymer (SMP)
colors		black
cure speed	24h	~3 mm
skin forming time	mm	about 15 min.
shore A hardness (DIN 53505)		65 Shore A
elongation (ISO 527-1A)		200 - 250%
tensile strength (ISO 527-1A)	MPa	2,8 MPa
MZV (ISO 9040)		25%
shrinkage		1%
density	kg/m <sup>2</sup>	1.54
shelf life	months	12
temperature resistance		-40°C to +100°C
application temperature		+5°C bis +35°C

## SAFETY INFORMATION

Please send your request for the latest version of the material safety data sheet (MSDS).

## PACKAGING / VOLUME

290ml cartridge – 12 pcs. per box  
600 ml sausage – 12 pcs per box

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