



# STR 360

## Product

Simson STR 360 is a Silyl Modified Polymer (SMP) based adhesive with a high tensile strength and is suitable for making elastic constructive joints.

## Applications

- Elastic bondings and sealings in e.g. bus-, caravan- and trailer construction.
- Bonding of metals, glass and plastics.

## Features

- Solvent-, isocyanate- and PVC free.
- Good UV-resistance and ageing properties.
- Permanently elastic in a temperature range of  $-40^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$ .

## Adhesion

In general STR 360 adheres well without primer on clean, dry, dust- and grease free substrates of aluminium, stainless steel, galvanised steel, zinc, copper, brass, powder coated metal, most lacquered metal surfaces, glass, PVC, polyester (GRP), painted and lacquered wood, etc. No adhesion on untreated polyethylene, polypropylene and teflon. In case of high adhesion demands the use of Simson Prep M is recommended. Prep M degreases and prepares the surface of the substrate in one step. On plain, untreated wooden surfaces and other porous substrates Simson Prep P is recommended. In case the joint is exposed to UV radiation the bond surface has to be protected by UV-blocking methods like Simson Prep G. For more details concerning Prep M, Prep P and Prep G consult the specific Technical Data Sheets. For not mentioned substrates and additional information consult Bostik.

## Method of use

STR 360 can easily be extruded with a hand- or air pressure gun at temperatures between  $+5^{\circ}\text{C}$  and  $+35^{\circ}\text{C}$ . In sealing applications STR 360 should be tooled or smoothed within 10 minutes (at  $20^{\circ}\text{C}/50\%$  R.H.) with a spatula or putty knife, occasionally moistened with a soap solution. Avoid soap solution penetrating between joint sides and sealant, because this will create loss of adhesion. In bonding applications the substrates have to be assembled within 15 minutes (at  $20^{\circ}\text{C}/50\%$  R.H.) after applying STR 360. In general an adhesive thickness of 2 mm is recommended. Cleaning tools or removing uncured residue of STR 360 can be done with a clean colourless cloth, wetted with Simson Liquid 1. It is recommended to make a trial first to check possible attack of the substrate by Liquid 1.

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### Technical data

Basic material	Silyl Modified Polymer (SMP)	
Curing method	moisture	
Specific gravity	ca. 1.5 g/ml	
Skin forming time	ca. 10 min.	(20°C/50% R.H.)
Open time	< 15 min.	(20°C/50% R.H.)
Curing speed after 24 hrs	ca. 3 mm	(20°C/50% R.H.)
Shore A hardness	ca. 57	(DIN 53505)
Volume change	< 3%	(DIN 52451)
Green strength	ca. 600 Pa	(Physica Rheometer MC100) (max. load which can be applied per m <sup>2</sup> uncured adhesive without sagging)
Tensile stress (100%)	ca. 2.3 MPa	(DIN 53504/ISO 37)
Tensile stress at break	ca. 2.7 MPa	(DIN 53504/ISO 37)
Elongation at break	ca. 180%	(DIN 53504/ISO 37)
Shear stress	ca. 2.1 MPa	(DIN 53283/ASTM D1002) (Alu-Alu; adh. thickness 2 mm, test speed 50 mm/min.)
Tear propagation	ca. 15 N/mm	(DIN 53515/ISO 34) (Type C, test speed 500 mm/min.)
Solvent percentage	0%	
Isocyanate percentage	0%	
Temperature resistance	-40°C till +90°C	
Application temperature	+5°C till +35°C	
UV- and weather resistance	good	
Colours (standard)	black	
Packaging	290 ml cartridges and 600 ml sausages, other packaging on request	

### Storage stability

STR 360 can be stored for 12 months in an original, unopened container in a dry place at temperatures between +5°C and +30°C.

### Further information

The following publication is available on request:

- Material Safety Data Sheets (MSDS Sheets)

#### UK

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For more Bostik locations please consult [www.bostik.com](http://www.bostik.com)