

PRODUCT DATA SHEET

SikaPower®-492 G

Semi crash resistant hem flange body shop adhesive

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	Epoxy hybrid
Color (CQP001-1)	Black
Solid content (CQP576-1)	99 %
Density (uncured)	1.3 kg/l
Application temperature	50 — 60 °C
Viscosity η^* (DIN 54458)	flowability A4 at 45 °C 230 Pa.s
Levelling behavior G' (DIN 54458)	A2 at 45 °C 40 000 Pa
Curing conditions	standard 180 °C 30 minutes ^A minimum 160 °C 15 minutes ^A
Tensile lap-shear strength (CQP046-9 / ISO 4587)	at 10 mm/minute 28 MPa ^{B/C}
Dynamic resistance to cleavage (CQP505-1, CQP580-6)	at 2 m/s 27 N/mm ^{B/D}
T-peel strength (CQP580-2,-6 / ISO 11339)	at 100 mm/minute 13 N/mm ^{B/D}
Tensile strength (CQP580-5, -6 / ISO 527-2)	at 2 mm/minute 30 MPa
Elongation at break (CQP580-5, -6 / ISO 527-2)	at 2 mm/minute 8 %
Young's modulus (CQP036-2 / ISO 527)	at 2 mm/minute 1 600 MPa
Glass transition temperature (CQP039-1 / ISO 6721)	peak 110 °C ^F
Shelf life	9 months ^E

CQP = Corporate Quality Procedure

^{A)} substrate temperature^{B)} steel, HDG, H420, 1.2 mm^{C)} bondline thickness 0.2 mm^{D)} bondline thickness 0.3 mm^{E)} stored at temperature below 25 °C^{F)} tensile vibration, frequency 1 Hz, deformation stat./dyn. 0.3/0.05 %, heating rate 1 K/min

DESCRIPTION

SikaPower®-492 G is a one-part, epoxy-based, warm-applied, heat-curing, impact modified, structural adhesive.

It is designed for sheet metal assembly work in the body shop and is cured with heat, e.g in the paint oven.

PRODUCT BENEFITS

- Semi crash resistance
- Adheres well to oily substrates
- High wash-out resistance
- Can be spot-welded
- High strength
- Suitable to join different metals
- Distortion-free joining
- Solvents, PVC and isocyanate free
- Contains fine glass beads for layer thickness control

AREAS OF APPLICATION

SikaPower®-492 G is suitable for structural bonding of different types of metal and specific plastic materials. It is designed for use in combination with spot-welding, riveting, clinching and other mechanical fastening techniques, and in some cases as a partial replacement for them. The bonding of oily substrates (standard anti-corrosion treatment and deep drawing oils, approx. 2 g/m²) is possible because of the oil uptake during the heat curing.

The glass beads contained in the adhesive provide an even layer thickness and prevent excessive squeezing out of the adhesive when joining.

This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

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CURE MECHANISM

SikaPower®-492 G is cured by heat. The cure-rate depends on temperature and time of exposure. The most common heat sources are convection ovens. The maximum temperature must not exceed 210 °C for more than 10 minutes.

METHOD OF APPLICATION

SikaPower®-492 G is typically applied in bead form with a diameter of 1 to 3 mm. All parts of the application system in contact with the product must be heated. A phased temperature increase from 35 °C at the fol-lower plate to 55 °C at the application nozzle is typically used. During longer breaks (e.g. over night or weekends) suitable standby temperatures and switch-off times must be taken into account. The time between application and curing must be as short as possible, since moisture uptake could cause formation of blisters dur-ing the heat curing process. However, mois-ture uptake can be prevented by pre-curing the assemblies or car bodies for 15 minutes at 160 °C (substrate temperature). SikaPower®-492 G can be processed with manual-, pneumatic- or electric driven piston guns as well as dispensing equipment. For advice on selecting and setting up a suit-able pump system and related process para-meters, contact the System Engineering De-partment of Sika Industry.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical De-partment of Sika Industry. Copies of the following publications are avail-able on request:

- Safety Data Sheets

PACKAGING INFORMATION

Cartridge	300 ml
Pail ^A	27 Kg
Pail ^B	60 Kg
Drum	258 kg

A) diameter 280 mm B) diameter 355 mm

BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

HEALTH AND SAFETY INFORMATION

For information and advice regarding trans- portation, handling, storage and disposal of chemical products, users shall refer to the ac- tual Safety Data Sheets containing physical, ecological, toxicological and other safety-re- lated data.

DISCLAIMER

The information, and, in particular, the re- commendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when prop- erly stored, handled and applied under nor- mal conditions in accordance with Sika's re- commendations. In practice, the differences in materials, substrates and actual site con- ditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any writ- ten recommendations, or from any other ad- vice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users can always refer to the most recent version of the local Product Data Sheet for the relevant product, available on our website. The in- formation in any downloaded version is valid as of the time of download.

