

PRODUCT DATA SHEET

Sikaflex®-556

OEM Approved isocyanate-free windshield adhesive

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	Silane Terminated Polymer
Color (CQP001-1)	Black
Cure mechanism	Moisture-curing
Density (uncured)	1.2 kg/l
Non-sag properties (CQP061-1)	Good
Application temperature	product 5 – 35 °C ambient 5 – 35 °C
Skin time (CQP019-1)	15 minutes ^A
Open time (CQP526-1)	10 minutes ^A
Curing speed (CQP049-1)	See diagram 1
Shore A hardness (CQP023-1 / ISO 48-4)	55
Tensile strength (CQP036-1 / ISO 527)	6 MPa
Elongation at break (CQP036-1 / ISO 527)	350 %
Tear propagation resistance (CQP045-1 / ISO 34)	15 N/mm
Tensile lap-shear strength (CQP046-1 / ISO 4587)	4 MPa
Shear modulus (CQP081-1)	All-in-one
Safe Drive Away Time (cars) according FMVSS 212 (CQP511-1)	with airbag 2 hours ^{A/B} without airbag 1 hour ^{A/B}
Insulation resistance (CQP079-2 / DIN IEC 60167)	Low conductive
Shelf life	12 months ^C

CQP = Corporate Quality Procedure

^{A)} 23 °C / 50 % r. h.^{B)} Details about SDAT contact Sika^{C)} storage below 25 °C

DESCRIPTION

Sikaflex®-556 is a cold-applied, isocyanate and solvent-free windshield adhesive. It meets the standards for original factory glazing and aftermarket applications.

Sikaflex®-556 has been tested according FMVSS 212.

PRODUCT BENEFITS

- Free of isocyanates, solvents, PVC and silicones
- Suitable for most car makes and models
- Tested according FMVSS 212 standard

AREAS OF APPLICATION

Sikaflex®-556 has been specially designed for the Automotive Glass Replacement business. It is suitable for windshield replacement as well as for applications in the transportation OEM industry.

Sikaflex®-556 is suitable for experienced users only.

This product and related process information is designed for Automotive Glass Replacement. For other applications, tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

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Version 03.01 (04 - 2023), en_DK

012201215563001000

CURE MECHANISM

Sikaflex®-556 cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower (see diagram 1).

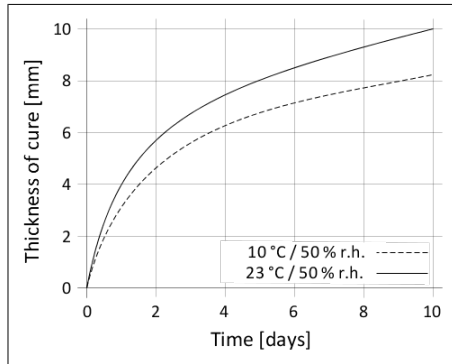


Diagram 1: Curing speed

CHEMICAL RESISTANCE

Sikaflex®-556 is generally resistant to fresh water, seawater, diluted acids and diluted caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, glycolic alcohol, concentrated mineral acids and caustic solutions or solvents.

METHOD OF APPLICATION

Surface preparation

Surfaces must be clean, dry and free from grease, oil, dust and contaminants.

The bond faces must be treated according to Sika's Black-Primerless (only with Sika®Aktivator PRO or Sika®Aktivator-205) or All Black installation process. Further information on the application and use of Pre-treatments, can be found in the corresponding Product Data Sheet.

Windshields without ceramic coatings need proper UV protection.

Application

It is recommended to apply Sikaflex®-556 with a battery operated or air powered piston-type application gun.

Consider the viscosity increase at low temperature. For easy application, condition the adhesive at ambient temperature prior to use. To ensure a uniform thickness of the bondline it is recommended to apply the adhesive in form of a triangular bead (see figure 1).

Figure 1: Compressing adhesive bead to final size

The open time is significantly shorter in hot and humid climate. The glass must always be installed within the open time. Never install a glass after the product has built a skin.

Removal

Uncured Sikaflex®-556 can be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically. Hands and exposed skin have to be washed immediately using hand wipes such as Sika® Cleaner-350H cleaning towels or a suitable industrial hand cleaner and water. Do not use solvents on skin!

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data Sheets
- Black-Primerless installation process chart
- All Black installation process chart

PACKAGING INFORMATION

Unipack	600 ml
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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 transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

DISCLAIMER

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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