

## PRODUCT DATA SHEET

# Sikaflex®-270 + SikaBooster® AC-30

Accelerated assembly adhesive

## TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base		Accelerated PUR
Color (CQP001-1)		Black
Cure mechanism		Moisture-curing <sup>A</sup>
Density (uncured)	Sikaflex®-270	1.27 kg/l
	SikaBooster® AC-30	1.18 kg/l
Booster content	by volume	2.0 %
	by weight	1.8 %
Non-sag properties (CQP061-1)		Good
Application temperature	adhesive	35 – 45 °C
	ambient	15 – 40 °C
Open time (CQP526-1)		5 minutes <sup>B</sup>
Early tensile lap-shear strength (CQP046-1 / ISO 4587)		See table 1
Shrinkage (CQP014-1)		1 %
Shore A hardness (CQP023-1 / ISO 48-4)		55
Tensile strength (CQP036-1 / ISO 527)		5.5 MPa
Elongation at break (CQP036-1 / ISO 527)		600 %
E-Modulus (CQP036-1 / ISO 527)	0.5 – 5 %	4 MPa
Tear propagation resistance (CQP045-1 / ISO 34)		9 N/mm
Tensile lap-shear strength (CQP046-1 / ISO 4587)		4 MPa
Service temperature (CQP513-1)		-40 – 100 °C
	4 hours	120 °C
Shelf life	Adhesive (pail / drum)	9 months <sup>C</sup>
	SikaBooster® AC-30 (pail)	9 months <sup>C</sup>
Mixer		MIXPAC™ MS 13-18G

CQP = Corporate Quality Procedure

<sup>A)</sup> moisture provided by SikaBooster® AC-30<sup>B)</sup> 23 °C / 50 % r. h.<sup>C)</sup> stored below 25 °C

## DESCRIPTION

Sikaflex®-270 + SikaBooster® AC-30 is an accelerated polyurethane adhesive system. It is elastic and has a pasty-like consistency as well as good non-sag property. Sikaflex®-270 is exclusively used in conjunction with SikaBooster® AC-30 which makes the curing largely independent from atmospheric conditions.

## PRODUCT BENEFITS

- 1-component formulation with accelerated cure
- High lap-shear strength to fulfil needs for Automotive glass bonding
- Elastic, can cope with thermal elongation of different substrates
- Adequate working time to complete assembly, despite rapid cure
- Capable of withstanding high dynamic stresses
- Solvent free

## AREAS OF APPLICATION

Sikaflex®-270 + SikaBooster® AC-30 is designed for automated assembly applications where the rapid attainment of early strength and adhesion is essential.

It is well suited for direct glazing and bonding of other vehicle parts.

Seek manufacturer's advice and perform tests on original substrates before using Sikaflex®-270 + SikaBooster® AC-30 on materials prone to stress cracking.

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

## PRODUCT DATA SHEET

Sikaflex®-270 + SikaBooster® AC-30  
Version 04.01 (09 - 2023), en\_DEAUTO  
012001232700901031

## CURE MECHANISM

Sikaflex®-270 + SikaBooster® AC-30 cures by reaction with moisture provided by SikaBooster® AC-30 and largely independent from atmospheric moisture. For typical strength build up data at ambient temperature (23 °C) see table below.

Time [h]	Lap-Shear Strength [MPa]
1	2.0
2	3.5
4	4.0

Table 1: Strength build up applied at 40 °C adhesive temperature

## CHEMICAL RESISTANCE

Sikaflex®-270 + SikaBooster® AC-30 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 and dust. Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond. All pre-treatment steps must be confirmed by preliminary tests on original substrates considering specific conditions in the assembly process.

### Application

Sikaflex®-270 + SikaBooster® AC-30 need to be processed with an adequate dispensing system. The mixer type needs to be respected (see table Typical Product Data).

Sikaflex®-270 + SikaBooster® AC-30 shall be applied between 35 °C and 45 °C but changes in reactivity and application properties have to be considered. The temperature for substrate needs to be at least 3 °C above the dew point.

To ensure a uniform thickness of the bondline it is recommend to apply the adhesive in form of a triangular bead (see figure 1).

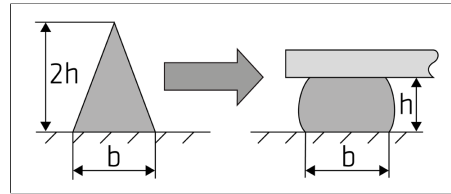


Figure 1: Recommended bead configuration

The open time is significantly shorter in hot and humid climate. The parts must always be joined within the open time.

For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

## Tooling and finishing

Sikaflex®-270 + SikaBooster® AC-30 is not suitable for tooling. If tooling is required, use Sikaflex®-270 without SikaBooster® AC-30.

## Removal

Uncured Sikaflex®-270 + SikaBooster® AC-30 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 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
- Sika Pre-treatment Chart  
For 1-component Polyurethane
- General Guideline  
Bonding and Sealing with 1-component Sikaflex®

## PACKAGING INFORMATION

Sikaflex®-270

Pail	23 l
Drum	195 l

SikaBooster® AC-30

Pail	19.5 l
------	--------

## 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

The information, and, in particular, the recommendations relating to the application and enduse of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions 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 written recommendations, or from any other advice 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 must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

## PRODUCT DATA SHEET

Sikaflex®-270 + SikaBooster® AC-30  
Version 04.01 (09 - 2023),  
en\_DEAUTO  
012001232700901031

## Sika Automotive Deutschland GmbH

Flinschstrasse 10-16  
60388 Frankfurt am Main  
www.sikaautomotive.com

