

## PRODUCT DATA SHEET

# Sikaflex®-271 + SikaBooster® P-50

Booster accelerated glazing adhesive

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

Chemical base		Polyurethane
Color (CQP001-1)		Black
Cure mechanism		Moisture-curing <sup>A</sup>
Density (uncured)	Adhesive	1.18 kg/l (9.8 lb/gal)
	SikaBooster® P-50	1.10 kg/l (9.2 lb/gal)
Booster content	by volume	2.0 %
	by weight	1.9 %
Non-sag properties		Very good
Application temperature	ambient	10 – 45 °C (50 – 113 °F)
Open time (CQP526-1)		10 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)		65
Tensile strength (CQP036-1 / ISO 527)		7 MPa (1000 psi)
Elongation at break (CQP036-1 / ISO 527)		350 %
Tear propagation resistance (CQP045-1 / ISO 34)		10 N/mm (60 pli)
Tensile lap-shear strength (CQP046-1 / ISO 4587)		5 MPa (725 psi)
Service temperature (CQP513-1)		-40 – 90 °C (-40 – 194 °F)
	4 hours	120 °C (248 °F)
	1 hour	140 °C (284 °F)
Shelf life	Adhesive	6 months <sup>C</sup>
	SikaBooster® P-50	9 months <sup>C</sup>
Mixer		Statomix MS13/18 G
	small volume	Statomix MS06/18 T

CQP = Corporate Quality Procedure

<sup>A</sup>) provided by SikaBooster® P-50<sup>B</sup>) 23 °C (73 °F)/ 50 % r. h.<sup>C</sup>) storage below 25 °C (77 °F)
**DESCRIPTION**

Sikaflex®-271 + SikaBooster® P-50 is an accelerated elastic polyurethane adhesive system for glazing applications. Suited for bonding materials relevant for direct glazing such as paints, glass, ceramic frits, painted and e-coated surfaces in commercial-vehicle production.

Sikaflex®-271 + SikaBooster® P-50 is compatible with Sika's black-primerless bonding process. Owing to the use of SikaBooster® it cures largely independently of atmospheric conditions.

**PRODUCT BENEFITS**

- Accelerated curing and adhesion build-up
- Very good application properties
- Suitable for automated application
- Low climate dependency of the curing speed with Sika® Booster Technology
- High mechanical strength
- Solvent-free

**AREAS OF APPLICATION**

Sikaflex®-271 + SikaBooster® P-50 is designed especially for manual and automated direct-glazing application out of bulk packaging where a fast build-up of adhesion and strength is required. This is provided by the use of SikaBooster® P-50. Seek manufacturer's advice and perform tests on original substrates before using Sikaflex®-271 + SikaBooster® P-50 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.

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## CURE MECHANISM

Sikaflex®-271 + SikaBooster® P-50 cures by reaction with moisture provided by SikaBooster® P-50 and largely independent from atmospheric moisture. For typical strength build up data see table below.

Time [h]	Tensile lap-shear strength at 23 °C (73 °F) [MPa]
1	1.5 (200 psi)
2	4 (575 psi)
3	5 (725 psi)

Table 1: Strength build-up Sikaflex®-271 + SikaBooster® P-50

## CHEMICAL RESISTANCE

Sikaflex®-271 + SikaBooster® P-50 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®-271 + SikaBooster® P-50 needs to be processed with an adequate dispensing system. The mixer type needs to be respected (see table Typical Product Data).

Sikaflex®-271 + SikaBooster® P-50 can be applied between 10 °C and 45 °C (50 °F and 113 °F) but changes in reactivity and application properties have to be considered. The optimum temperature for substrate and sealant is between 15 °C and 25 °C (59 °F and 77 °F).

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## Sika Corporation

30800 Stephenson Highway  
Madison Heights, MI 48071  
U.S.A.  
Telephone: +1 248-577-0020  
Email: tsmh@us.sika.com  
www.sikausa.com

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

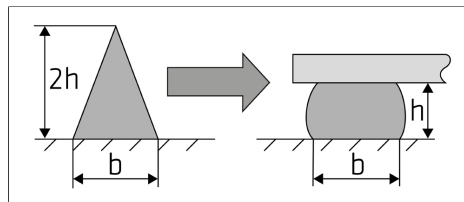


Figure 1: Recommended bead configuration

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

As a rule of thumb, a change of + 10 °C (+ 18 °F) reduces the open time by half.

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

## Removal

Uncured Sikaflex®-271 + SikaBooster® P-50 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 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 Polyurethanes
- General Guidelines  
Bonding and Sealing with 1-component Sikaflex®

## PACKAGING INFORMATION

Sikaflex®-271

Drum	195 l
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SikaBooster® P-50

Pail	23 l
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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.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by contacting SIKA's Technical Service Department via email at [tsmh@us.sika.com](mailto:tsmh@us.sika.com). Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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