

SPEED WITHOUT RE-ENGINEERING



# Sikaflex<sup>®</sup> Booster ELIMINATE BOTTLENECKS IN ADHESIVE BONDING

BUILDING TRUST



# Sikaflex® Booster

Sikaflex® Booster – Cope with adhesive bonding process bottlenecks

**THE USE OF ADHESIVES IN INDUSTRIAL ASSEMBLY HAS BECOME A STANDARD THROUGHOUT ALL KINDS OF INDUSTRIES.** While your output grows, process steps may become production bottlenecks. Adhesive bonding processes are no different from other assembly steps. When working with adhesives the following can become critical:

- Surface preparation
- Adhesive application
- Attaining enough handling strength to avoid taping, spacers, etc.

## Sikaflex® Booster TECHNOLOGY:

- Speeds up the adhesive curing reaction
- Maintains adequate working time
- Can be interchanged with the corresponding 1 Component material



## FOR INDUSTRIAL AND VEHICLE ASSEMBLY

- Reduce waiting time for subsequent steps
- Optimize assembly order
- Maintain performance regardless of workshop temperature (e.g., in winter)
- Reduce use of spacers and tape

## FOR COMMERCIAL VEHICLE REPAIR

- Significantly reduced vehicle downtime
- Allows service work almost immediately after glass replacement
- Reliable sensor calibration right after glass replacement
- Reduced comeback rate due to reaching high-strength quickly

SEE HOW POWERFUL Sikaflex® Booster IS....



[Watch Video](#)



**HIGHER  
THROUGHPUT**



**SHORTER  
DOWNTIME**



**LOWER  
LABOUR COST**

# Sikaflex® Booster

All possibilities from small scale to fully automated adhesive bonding processes

**Sikaflex® Booster ADHESIVE TECHNOLOGY IS PROVEN BY NUMEROUS INDUSTRIAL USERS ALL AROUND THE WORLD.** With the introduction of the PowerCure dispensing and packaging platform, smaller users or adhesive bonding jobs can also benefit from the technology. The PowerCure system is as powerful and reliable as industrial pump and dosing equipment.

## Sikaflex® Booster BULK DISPENSING



Compatible dispensing and dosing equipment is widely available. Sika provides support for equipment selection as well as integration into automated assembly lines. Contact us for details.



## PowerCure DISPENSER

- Ergonomic and simple handling
- Precise as industrial pump dosing and dispensing equipment
- Flexible and mobile use



## PowerCure PACKAGING

- Efficient sausage packaging
- Significantly smaller waste value than any 2 Component system on the market
- Automatic opening by the PowerCure Dispenser



## PowerCure MIXER

- Dynamic and efficient mixer
- Smaller waste volume than static mixers
- High throughput (up to 6 ml/s)
- Available as screw-on adapter for custom nozzle design



reddot design award  
winner 2018



DESIGN  
AWARD  
2016



# WHY Sikaflex® Booster?

Faster process with no need to re-engineer vehicle design

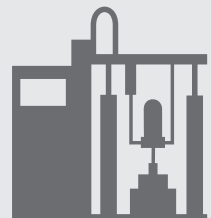
Sikaflex® Booster provides some unique features that make it a better choice in typical industrial assembly processes than regular 2 component materials.

## SIKA'S SYSTEM PRODUCT

**SAME END PERFORMANCE**

**FAIL-PROOF**

**FLEXIBLE, EVOLVES WITH YOUR PROCESS**



Sikaflex® Booster



1 Component



Sikaflex® Booster PowerCure



**HIGHER THROUGHPUT**



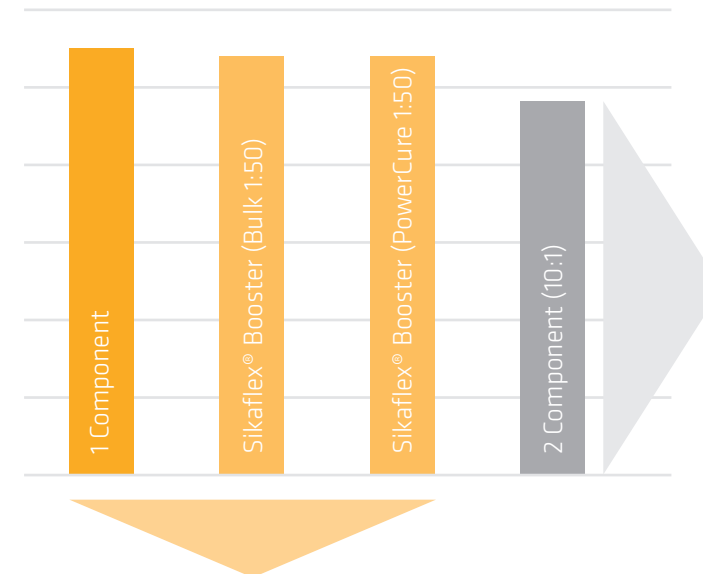
**SAVE MATERIAL COSTS**



**ROBUST PROCESSING**

1 Component Technology	2 Component Technology	Sikaflex® Booster Technology
<b>CURING FROM OUTSIDE ONLY</b>	<b>CURING FROM INSIDE ONLY</b>	<b>CURING FROM INSIDE AND OUTSIDE</b>
+ Easy handling	+ Fast strength development	+ Fast strength development
+ Reliable performance	+ Many performance specs	+ Same end performance with/without Booster
- Slow curing in cold	- Limited availability in small pack size (waste/cost)	+ Available in bulk and small pack (PowerCure)
	- Performance dependent on mixing accuracy	+ Fail-proof with curing by Booster or air moisture

Tensile Lap-shear Strength [MPa]



## 2 Component 10:1 Solutions

Adding 10% of non-reactive curing agent leads to:

**10-20% end-performance drop compared to 1 Component**

Using such a 10:1 solution therefore comes without flexibility to use speed only where needed since there is a significant performance difference between using the corresponding 1 Component vs the 10:1 boosted version. Sika offers 10:1 solutions as stand-alone products, e.g., the Sikaflex®-9xx Series

## Sikaflex® Booster Solutions: Mixing 2% Booster Paste

**No significant influence on final adhesive properties** (strength, elongation, durability, adhesion)

# Sikaflex® Booster Solutions

A range of possibilities

YOUR PROCESS	ASSEMBLY BONDING			HIGH STRENGTH VEHICLE GLASS BONDING			
	ORGANIC GLASS ASSEMBLY AND JOINT SEALING	FAST CURE ASSEMBLY ADHESIVE	NEW ASSEMBLY ADHESIVE WITH MINIMAL SURFACE TREATMENT	WEATHERING STABLE ASSEMBLY AND GLASS BONDING	ASSEMBLY AND GLASS BONDING WITH HIGH CHEMICAL RESISTANCE REQUIREMENTS	WINDSHIELD ADHESIVE FOR FACTORY AND REPAIR	AUTOMATED GLASS BONDING WITH IMMEDIATE GRAB
<b>SIKA SOLUTION</b>	Sikaflex®-223	Sikaflex®-254	Sikaflex®-554	Sikaflex®-265	Sikaflex®-268	Sikaflex®-271	Sikaflex®-276 PC-2
<b>1 COMPONENT</b>	■	■	■	■	■	■	■
<b>BULK BOOSTER</b>	■	■	■	■	■	■	■
<b>POWERCURE</b>	■	□	■	□	■	■	□
<b>CHEMISTRY</b>	Polyurethane	Polyurethane	STP	Polyurethane	Polyurethane	Polyurethane	Polyurethane
<b>COLOR</b>	Black	White / Black	White / Black	Black	Black	Black	Black
<b>APPLICATION TEMP</b>	Ambient temperature	Ambient temperature	Ambient temperature	Ambient temperature	Ambient temperature	Ambient temperature	60°C dispensed
<b>OPEN TIME</b>	20 min	20 min	15 min	45 min	30 min	15 min	5 min
<b>CURING SPEED (1C) @ RT</b>	4 mm/day	4 mm/day	3 mm/day	4 mm/day	4 mm/day	4 mm/day	4 mm/day
<b>STRENGTH DEVELOPMENT (WITH BOOSTER)</b>	4hr: 0.8 Mpa 8 hr: 1.3 MPa	2hr: 1.0 Mpa 4hr: 2.0 Mpa	4hr: 0.5 Mpa 8hr: 1.0 Mpa	2hr: 0.5 Mpa 4hr: 2.2 MPa	3hr: 1.0 Mpa 4hr: 2.0 Mpa	1hr: 0.7 Mpa 2hr: 3.5 MPa	1hr: 1.5 Mpa 2hr: 4.0 MPa
<b>CORRESPONDING BOOSTER</b>	SikaBooster® P-50	SikaBooster® P-50	SikaBooster® S-50	SikaBooster® P-50	SikaBooster® P-50	SikaBooster® P-50	SikaBooster® P-50
<b>TENSILE LAP SHEAR STRENGTH</b>	1.5 Mpa	2.2 Mpa	2.5 Mpa	4.5 Mpa	4.5 Mpa	5.0 Mpa	5.0 MPa
<b>SUITABLE FOR EXTERIOR JOINTS</b>	■■■	□□□	■■■	■■■	■■■	□□□	■■■□
<b>PRODUCT DESCRIPTION</b>	Multi-purpose adhesive and sealant suitable for interior and exterior application. Its excellent weathering resistance makes it suitable for exposed open joints. Its low modulus allows the use of Sikaflex®-223 to bond and seal organic glasses (PC, PMMA).	Assembly adhesive especially designed for bonding large components in industrial assembly. It is suitable for bonding coated metal, GRP, ceramic materials and plastics.	Assembly adhesive system for bonding large components in industrial assembly. It bonds well to a wide range of substrates with minimal surface preparation.	Adhesive for bonding and joint sealing in commercial-vehicle glazing applications. Its excellent weathering resistance makes it very suitable for use in exterior joints. Sikaflex®-265 is compatible with Sika's black-primerless glass bonding process.	Adhesive for bonding and joint sealing in commercial-vehicle glazing applications. Its outstanding weathering resistivity and unique resistance to a wide variety of cleaning agents make it an ideal solution for use in exterior joints in the rail industry. Sikaflex®-268 is compatible with Sika's black-primerless glass bonding process.	Adhesive for bonding materials relevant for direct glazing such as paints, glass, ceramic frits, painted and e-coated surfaces in commercial-vehicle production and repair. Sikaflex®-271 is compatible with Sika's black-primerless glass bonding process.	Warm-applied, accelerated polyurethane direct-glazing adhesive with high initial grip to prevent glass slip-down. Sikaflex®-276 PC-2 is compatible with Sika's black-primerless glass bonding process.

Always consult the most current local Product Datasheet with your local Sika Company about product availability or alternative solutions.



# SIKA ADDED VALUE

Going beyond the supply of materials and products

Sika is dedicated to providing and maintaining the highest quality standards with its products and services. All Sika solutions are designed with the customers' success in mind and to establish long-lasting and mutually-beneficial relationships.

Sika Industry's well-proven solutions are equally complemented with an unmatched level of customer service and technical support. We aim to help customers to produce a better vehicle, improve processes, minimize emissions and support reduction of overall vehicle manufacturing cost.

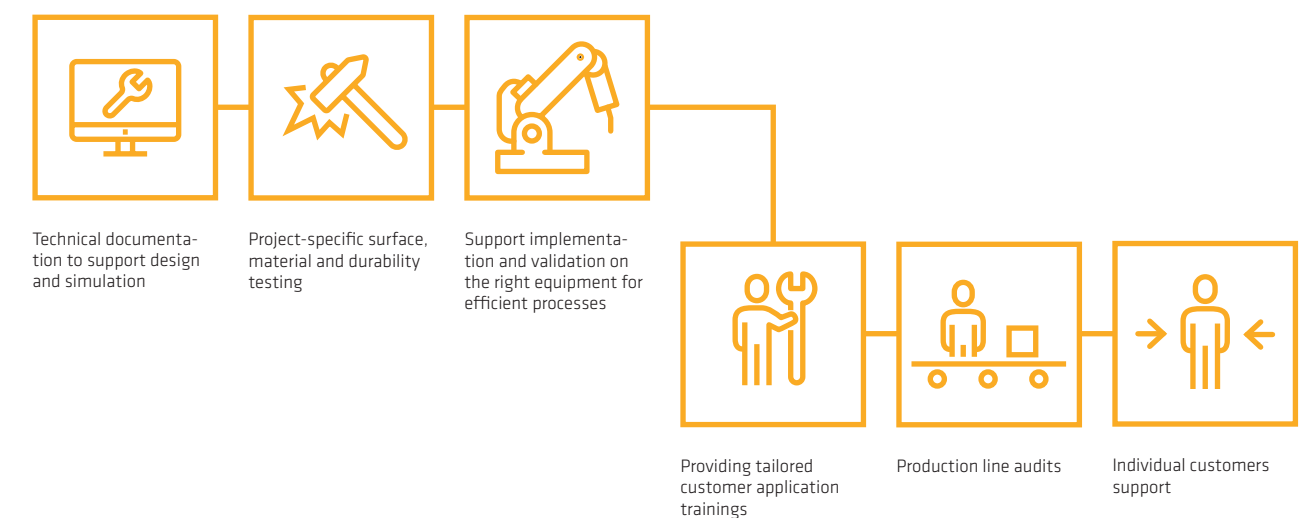
For decades, Sika is present in the global Transportation industry and supports customers with solutions for sealing, assembly bonding, coatings as well as reinforcement and acoustic solutions. Owners and operators demand ever-lower vehicle running and repair costs combined with improved reliability and durability. Newly developed structural adhesives help to meet these requirements. Government legislation is pushing for lower vehicle emissions. Sika, as supplier and partner to the global Transportation industry, provides a range of state of the art technology solutions to assist manufacturers in meeting these challenges as well.

SIKA OFFERS ADDED VALUE SOLUTIONS THAT INCREASE YOUR PRODUCTIVITY, REDUCE YOUR COSTS, AND RESULT IN DIFFERENTIATED END PRODUCTS FOR YOUR CUSTOMER.



DO YOU REQUIRE SUPPORT TO PRODUCE YOUR COMMERCIAL VEHICLES SAFER, MORE DURABLE, LIGHTHER AND FASTER?

Our teams help from the idea through to the design stage and until the completion of a project with:



# GLOBAL BUT LOCAL PARTNERSHIP



## WHO WE ARE

Sika AG, Switzerland, is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar and wind power plants, facades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting loadbearing structures. Sika's product lines feature highquality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

## FOR MORE INFORMATION

[www.sika.com/transportation](http://www.sika.com/transportation)  
[www.sika.com/powercure](http://www.sika.com/powercure)

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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**BUILDING TRUST**

