

SPEED WITHOUT RE-ENGINEERING



Sikaflex[®] Booster SYSTEM PRODUCTS

SAME END PERFORMANCE
AT VARIABLE PROCESSING SPEED
FROM INDUSTRIAL MANUFACTURING TO REPAIR

BUILDING TRUST



CHALLENGE

Producers of transportation vehicles implement adhesives into new vehicle designs by extensive calculation and simulation. Engineers include adhesive strength and fatigue performance in the CAE simulations. Looking towards producing the vehicle aspects of how to assemble, reduce process cost and improve process efficiency move into the focus of the engineers. Especially in highly regulated markets such as the railway industry, the repair process also needs to return the vehicle to the initial design. Products that may originally be specified from mechanical performance data may not be the ideal ones in an optimized production.

Sika is offering product systems based on Sikaflex® Booster technology to provide customers with uniformly high strength but different curing speeds.

SikaBooster® is a curing accelerator for Sikaflex® adhesives that can be turned on or off, changing the curing speed but not the final mechanical product properties. With the PowerCure Dispensing system, Sika is offering Sikaflex® Booster adhesives also extruded from sausage packaging, which does not require bulk dispensing equipment.

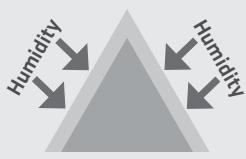
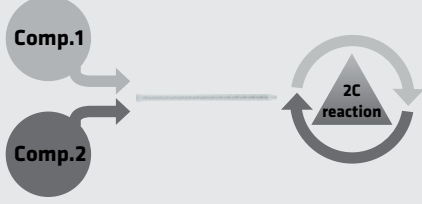
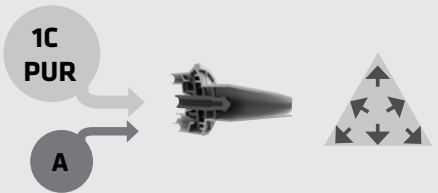
For standard 10:1 adhesive systems, more options for bulk dispensing equipment than for the 50:1 mixing range of Sikaflex® Booster may exist. However, moisture-curing adhesives based on 10:1 technology must be used as two-component systems to reach uniform final properties. Common 10:1 adhesives are available in plastic cartridges for use without bulk-dispensing equipment, resulting in a slow extrusion rate and a high amount of packaging waste.



WHY Sikaflex® Booster?

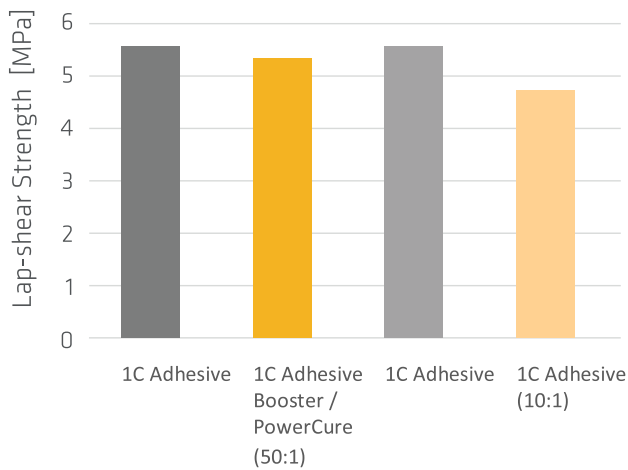
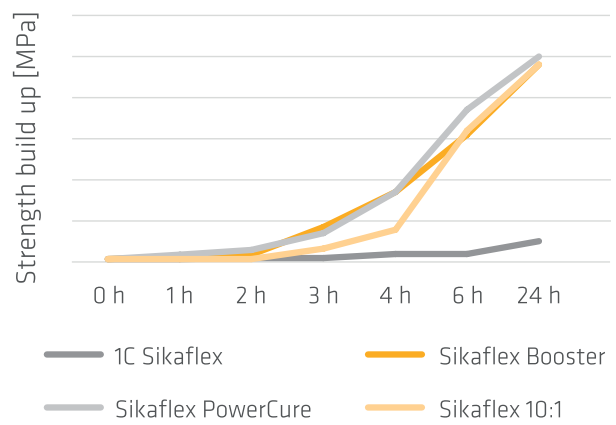
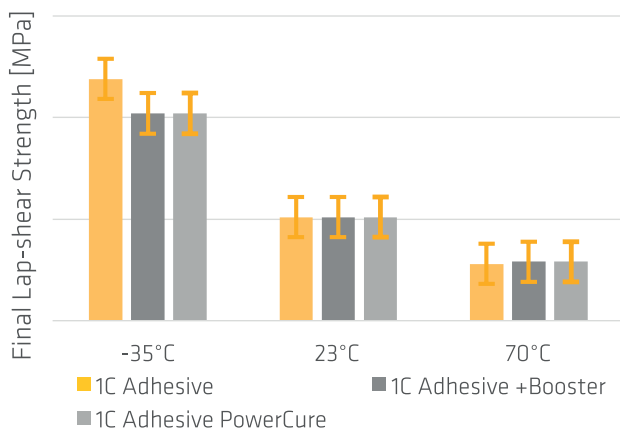
Benefits at a glance

SAME END PERFORMANCE	End performance after curing remains the same independently if cured with air moisture or SikaBooster®
COST-EFFECTIVE	Benefit from accelerated curing adhesives only where needed. SikaBooster® can be turned on/off)
RELIABLE PERFORMANCE	Sikaflex® Booster adhesives are highly reliable and proven in hundreds of use cases
AVAILABLE FROM SMALL PACK SIZE	Many Sikaflex® Booster adhesives are available in environmentally friendly sausage packaging and for application with Sika's PowerCure Dispenser.

1 Component Technology	2 Component Technology	Sikaflex® Booster Technology
		
CURING FROM OUTSIDE ONLY	CURING FROM INSIDE ONLY	CURING FROM INSIDE AND OUTSIDE
+ 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

BENCHMARK DATA

The strength development of Sikaflex® adhesives cured with air moisture and Sikaflex® Booster was compared at 23°C/50%r.h. In comparison, the performance of the same Sikaflex® adhesive in combination with a different accelerator component was also evaluated with a 10:1 mixing ratio.



Comment to 10:1 Systems:

Adding 10% of non-reactive curing agent leads to **10-20% end-performance drop compared to 1C.**

Using such a 10:1 solution, therefore, comes without the flexibility to use speed only where needed since there is a significant performance difference between using the corresponding 1C vs the 10:1 boosted version.

Sika offers 10:1 solutions as a stand-alone product, e.g., the Sikaflex-9xx Series.

SUMMARY

The Sikaflex® Booster technology, enhanced by the SikaBooster® curing accelerator, allows for controlled curing times without compromising the final mechanical properties of the adhesive. This flexibility is zcuring speeds. The PowerCure

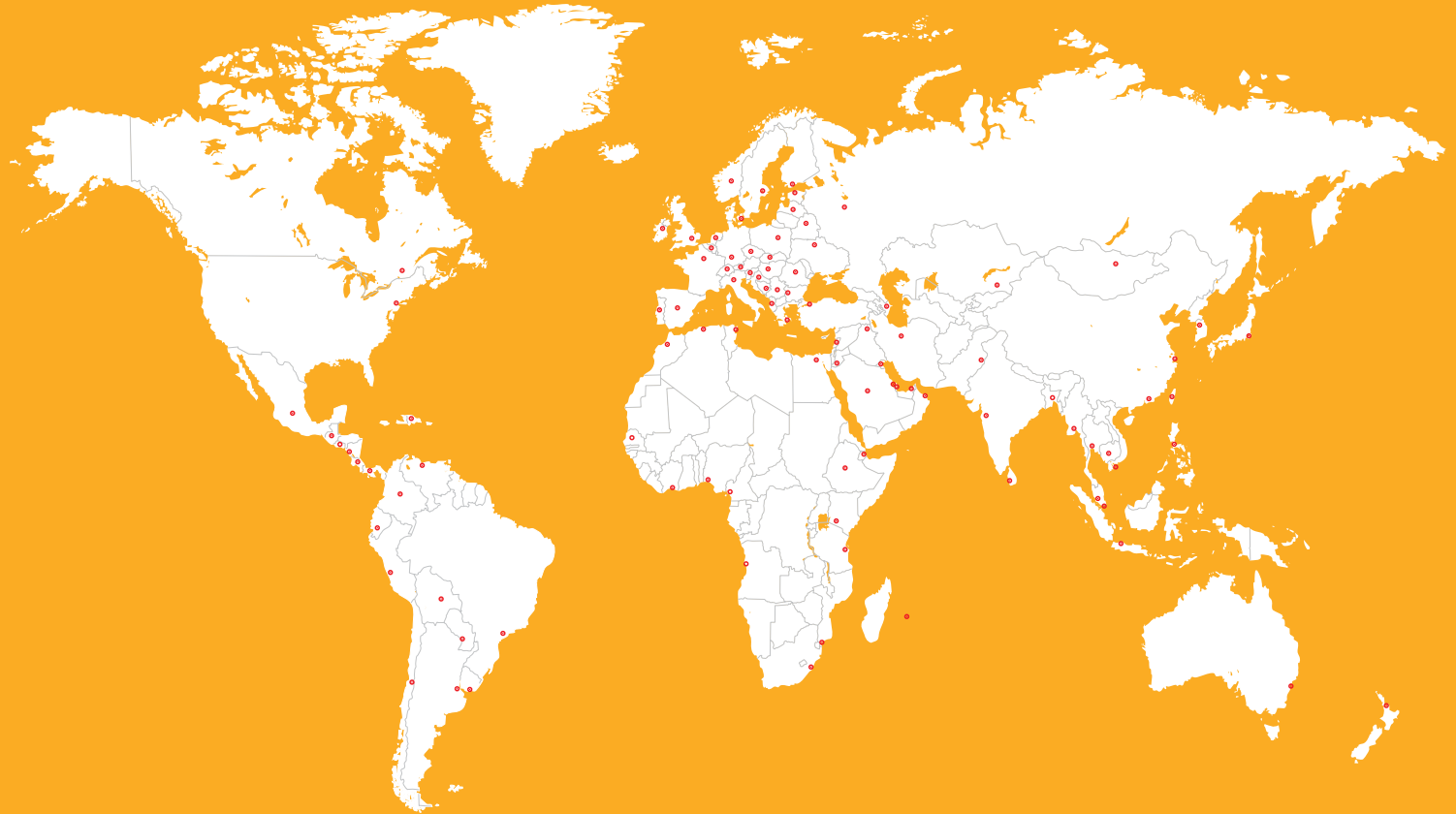
Dispensing system further enhances this process by allowing the use of Sikaflex® Booster adhesives from small, environmentally friendly sausage packaging, eliminating the need for bulky dispensing equipment.



In the context of buses, trucks, and other commercial vehicles, the need for fast and reliable assembly processes is critical to maintaining production efficiency and reducing downtime. **Sika's solution addresses this need by offering product systems based on Sikaflex® Booster technology.**

The technology provides adhesives that ensure uniformly high strength while allowing flexibility in curing speed, which is essential for various applications and stages of vehicle assembly.

GLOBAL BUT LOCAL PARTNERSHIP



FOR MORE INFORMATION

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LEGAL NOTE

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