

AUTOMATION IN TRUCK PRODUCTION WITH Sikaflex® Booster

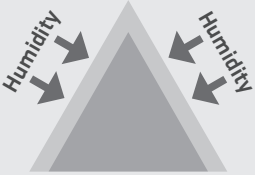
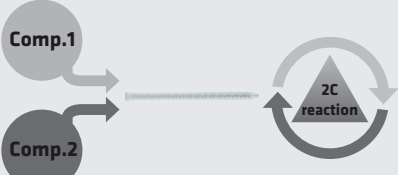
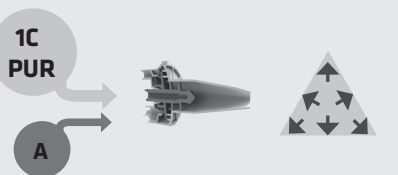
Driven by new regulations regarding a new Indian truck body building standard, VECV has considerably improved cab styling and ergonomics and introduced a BS6 complaint model: the Pro2000 series, for an overall superior driving experience. A semi-automated glass bonding process had replaced the rubber gaskets of the former models. With Sikaflex® Booster, VECV found a solution allowing a short clamp time, making it possible to move the cab out of the production line quickly.

The latest generation of Eicher light, medium and heavy-duty trucks have been designed for improved driver comfort and compliance with BS VI emission standards. The new Pro 2000 model cab incorporates a windshield bonded with Sikaflex® Booster. Since the plant was producing existing cabs with rubber-gasket glazed windshields, space for their installation was limited and coping with the adhesive curing time was a critical aspect for the engineers.

Sika provided a breakthrough solution to meet the needs of Eicher Truck. With Sikaflex®-271 + Sika® Booster P50 the time

for the adhesive to reach adequate strength to release the clamps could be reduced to one hour. Additionally, VECV invested in robotic automation of sealant application, with Sika support for process validation, equipment design and cost optimization.

Sika's global expertise combined with the local technical service provides commercial vehicle manufacturers like Eicher Truck optimal solutions for individual process optimization challenges.

1C Technology	2C 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

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Interview with **Mr. Virendra Singh Tomar**,
Head Engineering (Technical Services) Eicher Trucks & Buses

How did you find Sika's support throughout the project?

Sika was very supportive in developing glass bonding process for our newly developed cabin. Right from concept to final prove out Sika team had worked as an integral part with VECV. They were open and transparent in sharing their experience and knowledge which has helped VECV in overcoming all the challenges faced during this first time introduced process.

What made you decide for the Sikaflex® Booster solution?

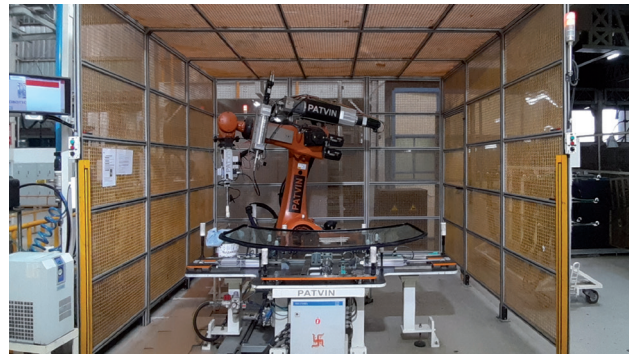
Sika's approach to be part of concept to prove out and offering solution which meets VECV Quality and cycle time requirement.

ABOUT Sikaflex® Booster

Sikaflex® Booster adhesive technology speeds the curing of single-component PUR and STP Sikaflex® adhesives. They are thus reducing handling time in industrial manufacturing. SikaBooster® has been used since the mid 1990s all over the world by vehicle manufacturers and industrial component producers. In 2015, Sika introduced the PowerCure dispensing system for small unit use with no need for bulk dispensing equipment. This flexible and cost-effective option enabled more companies to benefit from uniquely fast-curing elastic adhesives. Sikaflex® Booster enables users to:

- Increase production output
- Have more flexibility in the production process
- Enjoy fast vehicle turnaround in aftermarket repair

Visit www.sika.com/sikaflex-booster for more information about Sikaflex® Booster and how it can help you.



ABOUT VOLVO EICHER

In 2008, two leading players in the commercial vehicle business, Volvo Group and Eicher Motors, joined hands with a common vision of driving modernization in the commercial transport business in India. Volvo Group comes with global expertise, leadership in product technology, well-defined processes and a brand that is respected all over the world. Eicher Motors is a leader in the light and medium vehicle segment and brings to the table frugal engineering, considerable after sales infrastructure, and cost-effective operations. Together they complement each other and combine their strengths to deliver effective solutions that favorably impact the ecosystem. This partnership has helped modernize and evolve the industry in India and many other countries in emerging markets.

The company includes the complete range of Eicher brand trucks and buses, exclusive distribution of Volvo Trucks in India, engine manufacturing and exports for Volvo Group, non-automotive engines and Eicher component business. A multi-brand, multi-division company, backed by innovative products & services, VECV is recognized as a leader in the CV industry.

ABOUT SIKA

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing, and protecting in the building sector and motor vehicle industry. Sika has subsidiaries in 100 countries around the world and manufactures in over 300 factories. Sika employs more than 25,000 people and generated sales of CHF 8.1 billion in fiscal 2019. At the end of 2019 Sika won the Swiss Technology Award for a groundbreaking new adhesive technology.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use 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 products 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.

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