

Customer Report August 2019

Mobile pulling of joint seals on the construction site

Applying joint seals to civil engineering projects such as roads, traffic islands or rail networks is a complex process. Together with Reinhardt-Technik, the Swiss company SikaBau has developed a mobile solution that delivers fast, precise and economical results.



Visco Star 20 Plus

Sika is one of the world's leading suppliers of high-quality sealants and joint seals used in all areas of the construction industry. SikaBau is a specialist company of the Sika Group and offers construction services throughout Switzerland in the areas of waterproofing, building protection, building repair and building restoration in the building, underground and underground construction sectors. The product Sikaflex-406 Pavement, an accelerated, self-levelling, elastic floor joint sealant with high mechanical and chemical resistance, was newly developed for this purpose. By mixing in the booster, a quick, uniform and complete hardening of the sealant is made possible. The new product is used in the entire traffic sector, for example in pedestrian and traffic zones, in public squares, tram tracks, underground garages, parking decks, warehouses and production halls as well as in tunnels.

Continuous and exact processing as goal

Joint seals are drawn manually with cartridge guns on construction sites. What can be carried out without any problems in the interior construction is a great time-consuming process in road construction due to the quantities involved. SikaBau was looking for a dosing solution that could apply large quantities of Sikaflex precisely and continuously on the construction site. For this purpose an automatic dosing unit was to be used on a vehicle. In addition to mobility, the mixing unit also had to mix the new floor joint sealant perfectly.

The solution to these requirements was found at Reinhardt-Technik with the Visco Star 20 Plus dosing unit, which is specially designed for the economical processing of single-component polyurethane. Reinhardt-Technik developed the PLUS technology to handle short production processes with fast-curing adhesives. This technology mixes 1-3 % air humidity with the base component with the aid of an accelerator paste. The result is a significantly shorter cycle time. Since Sikaflex-406 Pavement also cures very quickly, the Visco Star 20 Plus system was the optimal solution for SikaBau.



Application of the Visco Star 20 Plus at SikaBau

A complete success already in the development phase

The result of the customer-specific development and the cooperation with Reinhardt-Technik convinced the users at SikaBau after only a short time. Where previously the components had been prepared and mixed manually, the new dosing unit now doses uniformly, accurately and cleanly. The bottom line is measurably better performance and higher processing accuracy. "Reinhardt-Technik was the only manufacturer to offer pump technology that met our requirements. Thanks to the unit, which has been technically adapted exactly to our requirements, we can use the dosing system as a mobile unit. In this way, longer sections can be sealed conveniently, with consistent quality and in a material-saving manner," says Serge Heyer, branch



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manager at SikaBau. In addition to the cost-effectiveness of the Visco Star 20 Plus through low material and energy consumption, SikaBau is also convinced by the professional cooperation with Reinhardt-Technik. Even after commissioning, Reinhardt-Technik's plant technology is continuously optimised on the basis of the experience gained on the construction sites. This includes exact quantity dosing, which can change depending on temperature and humidity. With these measures and the customer-specific adaptation of the Visco Star 20 Plus, SikaBau fully meets its customers' requirements for high-quality joints.

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About Reinhardt-Technik GmbH:

Within the WAGNER Group we represent the worldwide competence center for bonding and sealing. We are one of the leading suppliers of dosing and mixing technology for the processing of liquid plastics in the areas of bonding, sealing, potting and surface coating. In addition, we offer our customers complete system automation as a complete solution from a single source.

More information is available at www.reinhardt-technik.de

About WAGNER Group:

J. Wagner GmbH is one of the world's leading manufacturers of equipment and systems for surface coating with powder and liquid lacquers, paints and other liquid materials. The WAGNER Group portfolio also includes bonding, sealing and encapsulation technology including injection moulding with the brands WAGNER, Titan, Walther Pilot, Reinhardt-Technik and CA Technologies. The beginnings of the company go back to the year 1947. Today the innovative coating technologies of WAGNER are used in industry as well as by craftsmen and do-it-yourselfers and set standards in the industry. The WAGNER Group is represented worldwide by around 1,600 employees in 15 operative companies and around 300 agencies. Owners of the WAGNER Group are the Josef Wagner Foundations, which pursue exclusively charitable goals.

More information is available at www.wagner-group.com