



SIKA AT WORK

RECONSTRUCTION OF THE TRAM TRACK ALONG PIEKARSKA AND SADOWA STREETS, BYTOM

SIKA TECHNOLOGIES: RAILFIXING: SIKA® ICOSIT® KC SYSTEM,
GROUTING MORTAR SIKAGROUT®-4 R

conTrack

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RECONSTRUCTION OF THE TRAM TRACK ALONG PIEKARSKA AND SADOWA STREETS, BYTOM

DESCRIPTION

The reconstruction of the tram track along Piekarska and Sadowa Streets in Bytom a part of the "Integrated Project for the Modernization and Development of Tram Infrastructure in the Silesian-Dabrowa Agglomeration along with the Purchase of Tram Rolling Stock" co-financed by the European Union. The task included the reconstruction of the existing tram track along Piekarska Street to the end of the tram line at Powstancow Slaskich Street with accompanying infrastructure, tram stops and road surface and adjacent pavements. Thanks to this investment, passengers using this route have gained a new quality of travel.



PROJECT REQUIREMENTS

The modernization included the reconstruction of the entire street with the tram track, underground infrastructure, the construction of a bicycle path, new stop platforms, including the so-called Vienna-type stops. New turning connections were to be built to enable the tram route to be extended to Sikorski Square.

The task at this stage included the reconstruction of 1,750 meters of single track and the development of a road-track turnout. To enable quick completion of the turnout reconstruction work, for the first time in Poland the innovative CONTRACK prefabricated turnout plate technology was used.

Due to the scale of the street reconstruction, the project required special attention during planning and design to minimize disruption to tram and road traffic while ensuring minimal impact on the environment and maximum durability of the infrastructure.



SIKA SOLUTIONS

The use of innovative CONTRACK technology required precise preparation. Each slab was individually designed for tracks geometry, curves and turnouts, and then made in a precast concrete plant. Prefabricated modules include not only reinforced concrete slab and steel track structure, but also full equipment – including sensors, drainage, switch drives and heating systems. The next stage of the preparatory work was a trial assembly, carried out at the KZN plant in a scale of 1:1, using a modular system specially developed for this investment. Then, the finished elements were transported from the siding of the production plant in Krakow to the installation site and assembled within a few hours. This precise preparation and trial assembly ensured safe and efficient execution of subsequent works. To meet the schedule, all materials used had to allow fast and easy application and rapid achievement of required properties. For rail fixing and joint sealing, the proven Sika® Icosit® KC system was applied, ensuring durability and tightness. It

consists of: **Sika® Icosit® KC 320/50** a flexible material based on polyurethanes with high elastic recovery, characterized by excellent insulation properties, eliminating the formation of stray currents and thus corrosion of steel elements located nearby. Sika® Icosit® KC 320/50 reduces secondary noise and absorbs vibration. It is designed for both manual and machine application, which allows for significant acceleration of work and obtaining the highest quality. 1-component polyurethane primer **Sika® Icosit KC-330 Primer** is used to prepare the substrate and improve adhesion. The filler blocks was bonded with **Sika® Icosit® KC 330 FK**.

CONTRACK technology sets new standards for tram track construction in Poland and Europe, enabling fast and efficient modernization with minimal environmental impact while ensuring long-term durability through high-quality materials and precision workmanship.





PROJECT PARTICIPANTS

Owner:	Miasto Bytom
Investor:	Tramwaje Śląskie S.A.
Main contractor:	EUROVIA Polska
Contractor:	KZN Rail Sp. z o.o.
Sika Poland:	Tomasz Wesołowski



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