



SIKA AT WORK

RENOVATION OF A ROAD CROSSING ON THE NATIONAL ROAD NO. 10, SZCZECIN

SIKA TECHNOLOGY: railfixing: Icosit® KC system,
prefabricated slabs PFK 40

BUILDING TRUST



THE USAGE OF SIKA MATERIALS TO REDUCE THE NOISE LEVEL

The road crossing with the tram track at the intersection of **BOHATERÓW WARSZAWY STREET WITH BOLESŁAWA KRZYWOUSTEGO STREET IN SZCZECIN** on the national road No. 10 leading to the state border required urgent renovation due to poor technical condition resulting from heavy traffic loads. The project is a reconstruction of the existing state without changing the geometry.

PROJECT REQUIREMENTS

The reconstruction of the road crossing and the tram track included the complete replacement of the track structure along with its road development on a curve with a horizontal radius of 25 m over a section of approximately 150 m, and the use of solutions reducing noise levels and improving the comfort of local residents. The works were carried out in the city center at a heavily loaded and busy intersection, so decommissioning was limited to the necessary minimum, and the technologies used had to enable the necessary work to be carried out quickly.



SIKA SOLUTIONS

The track structure is based on prefabricated, reinforced concrete, tram slabs, which are placed on **Sylomer® MFSTP** vibro-insulating mats that provide protection against vibrations and secondary noise. The rails in the rail trays in the prefabricated slabs were fixed in a continuous, elastic system with **Icosit® KC 340/45**.

Icosit® KC 340/45 is a flexible polyurethane-based material with high resilience, characterized by excellent insulation properties, eliminating the formation of stray currents and thus corrosion of nearby steel components. **Icosit® KC 340/45** reduces secondary noise and vibrations. It is designed for both manual and machine application. A one-component, ready to use, chemically hardened polyurethane primer **Icosit® KC-330 Primer** is used to prepare substrates and improve adhesion. In the case of damp substrates or when it is necessary to apply on fresh concrete, **Sikadur®-53** epoxy resin is used for priming. The whole system is complemented by **Icosit® KC 330 FK** - a solvent-free, elastic, two-component polyurethane-based adhesive designed for track works for fixing concrete, rubber and other chamber blocks to the rail neck.





PROJECT PARTICIPANTS

Owner: Szczecin Municipality

Investor: Tramwaje Szczecińskie Sp. z o. o.

Project: Design office Architect Justyna Bernat - Łagoda Szczecin

General contractor: NIWA Szczecin Sp. z o. o.

Sika Poland: Bartosz Gądecki

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