



SIKA AT WORK

RENOVATION OF THE TRAM TRACK ALONG THE SOLIDARNOŚCI AVENUE, KRAKOW

SIKA TECHNOLOGIES: RAILFIXING: SIKA® ICOSIT® KC SYSTEM

BUILDING TRUST



RENOVATION OF THE TRAM TRACK ALONG THE SOLIDARNOŚCI AVENUE, KRAKOW

DESCRIPTION

The reconstruction of the tram track along Solidarności Avenue in Kraków is part of a comprehensive modernization of road and tram infrastructure on the section from Centralny Square to Bulwarowa Street. In addition to track reconstruction, the project includes the construction of a bicycle path and the reconstruction or complete replacement of the bridge over the Dłubnia River.

The Renovation of the track on Solidarności Avenue in Krakow is a long-term project involving modernization of sections from Centralny Square towards main gate of the steelworks “so-called” Kombinat, carried out in phases with interruptions, with the completion dates dependent on the progress of the adjacent S7 expressway S7 construction.

PROJECT REQUIREMENTS

This stage of the renovation covered approximately 2,000 meters of double track. The scope included reconstruction of the existing tram line along with associated infrastructure, tram stops, road surface, bicycle paths, and adjacent sidewalks. Most of the track was built using conventional technology, while intersections and turnout were executed using continuous fixing technology with polyurethane resins.

Key challenges included coordinating work and delivery schedules during winter and performing tasks in close proximity to the ongoing construction of the S7 expressway, which significantly affected local traffic.

The aim of the renovation is to improve infrastructure condition, ensure trouble-free operation in the coming years and increase travel speed and comfort.

SIKA SOLUTIONS

During the renovation of the track, the proven Sika® Icosit® KC system was used for fixing tram rails, consisting of the following materials:

- Sika® Icosit® KC 330 Primer - primer for steel and concrete,
- Sika® Icosit® KC 330 FK - adhesive for bonding filler blocks,
- Sika® Icosit® KC 340/45 - material for elastic continuous embedding of rails.

Sika® Icosit® KC 340/45 is 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 340/45 reduces vibration and secondary noise. It is designed for both manual and machine applications. A single-component, ready-to-use, chemical-hardened polyurethane primer **Sika® Icosit KC-330 Primer** is used to prepare substrates and improve adhesion.

Sika® Icosit® KC 330 FK is a solvent-free, elastic, two-component polyurethane-based adhesive for bonding concrete filler blocks to the rail neck.





PROJECT PARTICIPANTS

Project owner: Gmina Miejska Krakow
Investor: ZDMK Krakow
Road works project: Progreg Sp. z o.o.
Contractor: ZUE S.A.
Sika Poland: Tomasz Wesołowski

Sprzedaż, w której stroną sprzedającą jest Sika-Poland Sp. z o.o. z siedzibą w Warszawie, jest realizowana zgodnie z aktualnie obowiązującymi Ogólnymi Warunkami Sprzedaży Sika (w skrócie OWS), określającymi prawa i obowiązki stron umów sprzedaży towarów Sika. Przed zastosowaniem materiałów należy zasięgnąć informacji dostępnych w aktualnych Kartach Informacyjnych.



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