



SIKA AT WORK

RENOVATION OF A TRAM TRACK IN JANA PAWŁA II AVENUE, WARSAW

SIKA TECHNOLOGIES: RAILFIXING: SIKA® ICOSIT® KC SYSTEM

BUILDING TRUST



RENOVATION OF A TRAM TRACK IN JANA PAWŁA II AVENUE, WARSAW

DESCRIPTION

The reconstruction of the tram track along the Jana Pawła II Avenue in Warsaw included the renovation of 1330 meters of a single track on a viaduct above the railway tracks at the Arkadia Shopping Centre – between Radosława Roundabout and Grunwaldzki Square stops. The section is one of the most congested sections of the Warsaw tram network. At peak times, 60 trams per hour travel in one direction. The last major renovation of the track was carried out over 20 years ago, in 2002. Before the renovation, speed limits of 10-20 km/h were in place on each track, affecting travel comfort and journey times.

Source: ZTM Warszawa

PROJECT REQUIREMENTS

The works were planned to minimize the track closure period, considering construction and technological processes. The scope included dismantling the entire track structure down to the viaduct deck, installing new deck waterproofing, and reconstructing the track surface. Due to the very tight schedule, technologies enabling fast and easy application and quick return to service were essential.

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



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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:

- Sikadur® 53 - adhesive for installing anchors and dielectric coating,
- 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. **Sikadur®-53** epoxy resin is used for installing anchors and for priming rails and rail channels prior to bonding filler blocks with **Sika® Icosit® KC 330 FK** solvent-free, elastic, two-component polyurethane-based adhesive for bonding concrete filler blocks to the rail neck.



PROJECT PARTICIPANTS

Project owner: Tramwaje Warszawskie

Investor: ZDM Warszawa

Contractor: TOR-KAR-SSON Sp. z o.o. sp. k

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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