



# SIKA AT WORK

## CONSTRUCTION OF NEW TRAM TRACKS FOR A LIPSKA – WIELICKA SECTION OF KRAKÓW FAST TRACK

SIKA TECHNOLOGY: Icosit® KC

BUILDING TRUST



# CONSTRUCTION OF A NEW SECTION OF KRAKÓW FAST TRACK WITH A 620 METERS LONG VIADUCT

KRAKÓW FAST TRAM IS A DEVELOPING FAST TRAM NETWORK IN KRAKÓW THAT ALLOWS FOR QUICK AND SAFE PASSAGE OF TRAMS. IT CONSISTS OF SEVERAL MODERNIZED EXCLUSIVE TRAM TRACKS WITH ABSOLUTE PRIORITY ON CROSSINGS. A 620 METERS LONG VIADUCT, A MAIN OBJECT OF THE NEWEST PART OF KRAKÓW FAST TRACK SECTION LIPSKA - WIELICKA, IS MADE OF TWO PARTS - ONE OF THEM (APPROX. 460 METERS) RUNS OVER THE RAILROAD RAILS, WHILE THE OTHER (APPROX. 160 METERS) RUNS OVER THE EXISTENT ROAD SYSTEM. THE NEW SECTION LIPSKA - WIELICKA WAS OPENED IN 2015.



## PROJECT REQUIREMENTS

The construction of tram tracks over viaducts required high mechanical resistance and long durability. It was necessary to ensure a high precision of the alignment of track as well as electrical isolation and reliable protection from the negative influence of the tram traffic such as vibration and secondary noise. Additional requirements were short term execution of tram track construction and low Life-Cycle costs.



# DURABLE RAIL FIXING SYSTEM WITH A PROPERLY SELECTED VIBROISOLATION

## SIKA SOLUTIONS

The optimal pace of work was achieved due to comprehensive rail fixing system by Sika. **Icosit® KC** as a hand/machine application material for trackworks and prefabricated track slabs allowed for a significant acceleration of works.

Light Mass Spring System consisting of prefabricated track slabs with Embedded Rail System with approx. 40 tons of materials from **Icosit® KC 340/45** serie was located on the properly selected vibroisolation **Sylomer®** mats providing protection against vibration and secondary noise.

Thanks to high quality of **Icosit® KC** system it was possible to fulfill all requirements including high mechanical resistance, long durability of tram track, low Life-Cycle costs, high precision of the alignment of track, electrical isolation required speed of vehicles, passenger comfort and effective vibration insulation which ensured a reduced impact of tram traffic on the environment.





**PROJECT PARTICIPANTS:**

- Owner:** Kraków City
- Investor:** ZKiT Kraków
- Project:** Fean Projekt
- Main Contractor:** ZUE
- Sub-contractors:** NTB
- Sika Poland:** Maciej Muszyński

Our most current General Sales Conditions shall apply.  
Please consult the most current local Product Data Sheet prior to any use.



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