



# SIKA AT WORK

## MODERNIZATION OF RAILWAY LINE E65 WARSZAWA-GDYNIA: BRIDGE OVER NOGAT RIVER IN MALBORK

SIKA TECHNOLOGIES: Icosit® KC 340/7, Icosit® KC 330 Primer

**BUILDING TRUST**



# MODERNIZATION OF TRANS-EUROPEAN TRANSPORT NETWORK: RAILWAY LINE E65

STEEL BRIDGE OVER NOGAT RIVER IN MALBORK IS A PART OF MODERNIZED RAILWAY LINE E65 WHICH IS A PART OF TRANS-EUROPEAN TRANSPORT NETWORK CONNECTING THE BALTIC COUNTRIES WITH COUNTRIES SITUATED ON THE ADRIATIC SEA AND THE BALKANS. ON THE TERRITORY OF POLAND RAILWAY LINE IS POSITIONED LONGITUDINALLY THROUGH GDYNIA - WARSZAWA - ZAWIERCIE - KATOWICE - ZEBRZYDOWICE.



## PROJECT REQUIREMENTS

Project of renovation of bridge over Nogat river included a change of the type of rails. It caused a change of grade line of rails without a change of track plan. Used solution of point fixing rails to steel slab of bridge had to enable the correct installation of rails considering low structural height.



# ELASTIC RAIL FASTENING SYSTEM ICOSIT® KC

## SIKA SOLUTIONS

Rails were fixed to steel construction of bridge using screws and elastic rail fastening system with **Icosit® KC 340/7**. This solution protects the structure from dynamic forces and reduces vibration and secondary noise. Moreover it reduces the influence of railway traffic on environment and increases passengers comfort. Precise rails positioning on the bridge was possible due to reusable steel formwork to liquid material **Icosit® KC 340/7** and non-shrink hardening of material.





**PROJECT PARTICIPANTS:**

**Owner:** Zarządca Infrastruktury Kolejowej; PKP PLK S.A.

**Investor:** PKP PLK S.A.

**Project:** Halcrow, Scott Wilson, BPBK Gdańsk

**Main Contractor:** TRAKCJA POLSKA SA

**Subcontractor:** PUT Intercor Sp. z o.o.

**Sika Poland:** Tomasz Wesołowski

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Please consult the most current local Product Data Sheet prior to any use.



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