



SIKA AT WORK

CROSSROAD RECONSTRUCTION

(SHEVCHENKA STR. – MATYUSHENKA STR. KHARKIV, UKRAINE)

SIKA TECHNOLOGIES: Icosit® KC340/45, Icosit® KC330 Primer, Icosit® KC330FK NEW,

Embedded Rail System

CROSSROAD RECONSTRUCTION IN KHARKIV



PROJECT DESCRIPTION

Reconstruction of crossroad in Kharkiv, Ukraine, took place in 2018. Complete renovation of traffic infrastructure included change of base and wearing course as well as 300m of double tram track with 3 turnouts. Different fixing technologies were combined for the new track – ballast track, discrete fixation and Embedded Rail System.

PROJECT REQUIREMENTS

The owner required a track with minimum maintenance costs which is achieved by applying the ERS with PU resin grout Icosit® KC340/45. The noise and vibration reduction of the system contributes to the comfort of the citizens. Discrete fixation in turnout zones allows for shortest operation stop in case of switch change.

Special configuration of precast slabs were designed by contractor to maintain aesthetic geometry of joints in curves, reduce their number and provide new level of comfort for the drivers.

SIKA SOLUTIONS

Sika solution included the range of rail fixing materials for Embedded Rail System. Sikadur® -53 was used as moisture tolerant primer for concrete substrates. For rails priming Icosit® KC 330 Primer was used. Concrete filler blocks were applied using elastic adhesive Icosit® KC 330 FK New. Grouting and sealing of the rails was performed with PU resin grout Icosit® KC340/45.

PROJECT PARTICIPANTS

Project owner: Kharkiv City Council Infrastructure Department

Architect: Cityrail Technology LLC

Contractor: Elavtopas LLC

Sika Ukraine: Artem Zakharov



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