



SIKA AT WORK

Dvirceva Square (Lviv Ukraine)

SIKA TECHNOLOGIES: Icosit® KC340/45, Icosit® KC330 Primer, Sikadur®-53
Discrete Rail System



Dvirceva Square



PROJECT DESCRIPTION

The square is named after the dominant building - the railway station: the «dvirec» - from the Lviv dialect means "train station". The square is located in front of the main railway station and is currently under reconstruction. There is a pivoting tram ring on the square. The tram arrows fixation of the new tram track are made using Sika Icosit KC technology.

PROJECT REQUIREMENTS

Turnouts of the tram track were on curves with a small radius and virage. The task was to pour the arrows with simultaneous additional attachment to the concrete base. Also solve the following problems:

- Formation a dense, monolithic, universal system that coincides with the basement
- Applies in a liquid state, hardens without shrinkage, resulting in a material shape and ideally matches the basement - rails and arrows are prevented from the formation of sound bridges.
- Has excellent adhesion to steel and concrete, eliminating the problems associated with water penetration between the rails and the bases, the formation of the so-called "pump effect".
- The precision of mounting rails is equal to the precision of geodetic instruments used for measurements.

- Has exceptional insulating properties that exclude the effects of stray currents.
- Application the material is quick and easy.
- Full loading already in a day after installation.
- Elastic rail fixation leads to a comfortable, almost perfect ride.
- Great reduction of wheelsets and track rails wearing.
- Significant reduction of noise emission due to rail isolation and vibration damping.

SIKA SOLUTIONS

Rails elastic fastening technology of **Sika Icosit® KC 340/45** was used. Also for the priming of the base plate of the turnouts was used **Icosit® KC 330 Primer**, and for the priming of concrete and the installation of anchors – **Sikadur®-53**.

PROJECT PARTICIPANTS

Project owner: **Lvivavtodor**
Architect: **Institute of Spatial Development**
Engineer: **Specbuddorproekt**
Contractor: **Onur Construction International**
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