



SIKA AT WORK

Repair of a crossing on a public access road

Reconstruction of an extremely loaded level crossing, crossing over 2 tracks





The aim of the project was to replacement the inadequate, damaged level crossing, through which the main supply road to the Nošovice industrial plant runs. The truck traffic load here is extremely high. That is why both the investor and the designer were looking for a long lasting solution. Proven by durability of many application Sika's solution, which consists of Embedded Rail System using Icosit KC 340/65 (load bearing PU grout) placed in precast concrete panels, met the designer's requirements. The replacement of damaged solution reconstruction of the level crossing was carried out during 14 days.

The construction of the crossing consists of precast reinforced concrete panels placed on the asphalt levelling layer (upper surface of the all structure of the level crossing designed for so high traffic). The precast panels have a factory-made groove into which is applied fastening system – Embedded Rail System using Icosit KC 340/65. Icosit KC 340/65 – the PU grout absorbs dynamic shocks, ensures watertightness and due to the very good electrical resistance protect against the effects of stray currents. To reduce material consumption, concrete filler blocks were used.



The fixing of the concrete filler blocks to the rail and their subsequent handling was made possible by Icosit KC 330 FK – a material for fixing concrete filler blocks. The advantage of the material is its easy and quick application. The joints between the prefabricated panels were filled with Icosit KC 340/45, which in the joints fulfilled the function of sealing & bonding of the panels to each other. The joint between the prefabricated, concrete panels was filled to the full depth of ~ 40 cm, while maintaining the principle (valid for all places where the PU product may contact the wheels of cars) lowering the upper joint surface by ~ 3 mm from the road surface. Fast trafficable, boosted PU sealant Sikaflex-406 KC was used to fill the joints between the precast panels and the asphalt of the road.

Investor: Správa silnic Moravskoslezského kraje, příspěvková organizace

Designer: DRAWINGS s.r.o.

Application Company: Hroší stavby Morava, divize Dopravní stavby

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