



SIKA AT WORK

ESTAKADA KATOWICKA, POZNAN

SIKA TECHNOLOGY:

Concrete protection: Sika MonoTop®-723 N,
Sikagard®-552 W Aquaprimer, Sikagard®-550 W Elastic
Priming for bridge plate insulation: Sika® Ergodur-500 Pro,
Sidewalks surface: Sikafloor®-161, SikaCor® Elastomastic TF,
Antigraffiti coatings: Sikagard®-781 S, Sikagard®-780

BUILDING TRUST



RECONSTRUCTION OF ONE OF THE MOST IMPORTANT TRANSPORT HUBS IN POZNAN

THE BRIDGE OVER THE OBRZYCA VALLEY AND THE INFLANDZKA STREET IN POZNAN CALLED THE ESTAKADA KATOWICKA from the Katowice route running through it, was opened in December 1976. Since then, the object has not been renovated, its technical condition gradually deteriorated until it began to threaten the safety of users. In 2014, the northern thread of the flyover was closed. Reconstruction of the flyover began in March 2015 and included the demolition and reconstruction of the construction of both lines of the flyover as well as reconstruction and restoration of the neighboring infrastructure. The works were carried out in stages, the entire object was put into use in October 2017.

CHALLENGES

Each line of a flyover with a composite structure consists of steel beams based on reinforced concrete pillars, with a reinforced concrete top slab, has 29 spans and its total length is 550 m. The designed durability of the object is 100 years. The investor's basic requirement was to gain durability allowing for trouble-free, long-term operation of the facility. Therefore, for the concrete protection, it was necessary to use materials which are proven and have highest quality requirements, with appropriate strength parameters, durable colors and UV resistance.

To separate the surroundings from the noise at almost half of the length of flyover, acrylic glass panels (plexi) with a height of 4 m were set. To maintain their aesthetic appearance, they have been protected from graffiti.



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SIKA - PROVEN MATERIALS WITH APPROPRIATE DURABILITY PARAMETERS

SIKA SOLUTIONS

The reinforced concrete structure of bridge was protected against weather conditions and corrosion with a **Sikagard®-550 W Elastic**; protective coating in light gray color with excellent resistance to atmospheric factors, permeable to water vapor and impermeable for carbon dioxide. Before applying the protective coating, the substrate was leveled with concrete filler for sealing the surface and leveling unevenness **Sika MonoTop® 723-N**, and then was primed with **Sikagard®-552 W Aquaprimer**.

The reinforced concrete bridge slab, before applying of heat-welded waterproofing membrane, was primed with **Sika® Ergodur-500 Pro** - a solvent-free epoxy resin with excellent adhesion and resistance to high temperatures.

On the sidewalks, coating was applied on the surface of the flyover. The concrete substrate was prepared and primed with **Sikafloor®-161** resin and covered with **SikaCor® Elastomastic TF**, a chemically cured, without tar and solvent-free two-component hybrid material based on a mixture of epoxy and polyurethane resin, creating a flexible insulation and top layer with high chemical and mechanical resistance, including dynamic loads.

The acoustic screens were protected from unwanted graffiti with **Sikagard®-781 S**, which is one-component, colorless preparation with excellent adhesion to smooth surfaces and allows maintain perfect clarity of plexiglas. It effectively protects the substrate against graffiti made with inks and sprays, allowing multiple surface cleaning without the renovating of the coating.

The supports of the flyovers were protected with **Sikagard®-780**, a coating that protects the mineral substrates from graffiti, dirt and moisture, thanks to UV filters also preserving the surface color.

SIKA TECHNICAL SUPPORT

Permanent cooperation of the Sika specialist with the main contractor and subcontractors during the implementation of the project as well as previous experience of the contractors allowed to obtain high quality works.





PROJECT PARTICIPITANS

Owner/Investor: Poznanskie Inwestycje Miejskie (PiM) w Poznaniu

Designer: Promost Consulting Rzeszow

General contractor: MOST Sopot/Polbud Pomorze

Contractor: NIWA Szczecin Sp. z o. o., VECTOR Jarocin (bridge plate waterproofing)

Sika Poland: Bartosz Gadecki

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