



SIKA AT WORK

HARMANEC WWTP TANK, SLOVAKIA

CONCRETE PROTECTION: Sikagard®-7000 CR
CONCRETE REPAIR: SikaEmaco® T 1100 TIX

BUILDING TRUST



ANAEROBIC-TREATMENT SEDIMENTATION TANK



PROJECT DESCRIPTION

Project name: Repair of anaerobic treatment sedimentation tank at the Harmanec Wastewater Treatment Plant (WWTP)

Location: Slovakia

The project entailed the refurbishment of a tank used to treat technology wastewater that contains paper fibers and has a pH of 5.5 to 6.5 and a maximum temperature of 50°C. The refurbishment, which had a set timeframe of approximately two weeks, comprised the decommissioning and cleaning of the tank, removal of loose parts, and leveling of uneven surfaces at the bottom, which itself included a new slope profile, application of a final protective coat, and recommissioning of the tank once it had cured. This was a challenging and time-limited task that could only be accomplished thanks to the new developed Xolutec technology in the Sikagard®-7000 CR WWTP protection system.

PROJECT REQUIREMENTS

In the short downtime available, the damaged sections of the bottom of the tank had to be removed, the surface repaired, a new slope profile created, and a waterproofing layer resistant to wear and the conditions at the WWTP applied.

SIKA SOLUTIONS

To complete the task and develop the strength and necessary load resistance of the final layers quickly, we based our comprehensive solution on fast-curing materials.

Any product name or reference reflects the Sika product name at the time of creation of this document and may differ from the product name or reference during past events.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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CUSTOMERS BENEFIT

The client benefited from the new Xolutec™ technology in particular, as it ensured that work phases were carried out in rapid succession with prompt loading of the substrate and recommissioning of the tank, while providing multiple unique properties in a single material. The most prominent characteristic allows the Sikagard®-7000 CR system to be applied to a damp base with no need to monitor residual substrate moisture. Other special properties include high flexibility combined with extreme chemical and superior mechanical resistance, while the use of two different colors enables the material's operating resistance to be monitored and the future recoating frequency to be set.

PROJECT FACTS AT A GLANCE

The project, which included the initial cleaning and recommissioning of the tank, was implemented in a short time frame in the summer and took just 14 days to complete. This brief window placed extreme demands on not only the mix of materials used, but also on the contractor's expertise and craftsmanship. The client appreciated the adherence to process specifications and the work schedule, which saw the project delivered on time.

SYSTEMS USED:

- SikaEmaco® T 1100 TIX
- Sikagard®-385 EpoCem®
- Sikagard® P 770
- Sikagard® M 790

PROJECT PARTICIPANTS

Project Owner: SHP Harmanec a.s., SHP Group
Applicator/Contractor: TESTECO s.r.o.

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