Project Report/February 2024

StoCretec surface protection for cycle path from Veszprém to Gyulafirátót in Hungary

This project was successfully implemented in the summer of 2023: the “Macadam cycle path” and other developed sections lead from Veszprém to Gyulafirátót in Hungary, in the excursion area north of Lake Balaton.

New bridges and a new underpass were necessary to ensure safe routes for cyclists. In one area, the route crosses the Séd creek and an access road to a military training area and in another it crosses under a busy country road, as the pictures below show.

Surface protection: slip-resistant and wear-resistant

The bridge over the Séd is approximately 15 meters long. As surface protection, the design team chose the StoCretec system **StoFloor Traffic Elastic TEP MultiTop** in the OS 11a build-up with the coating StoPox TEP MultiTop and the sealing coat StoPur DV 508. The specialist applicator applied the system on both the track and the bridge cap. Thanks to its special formulation, StoPox TEP MultiTop combines permanently high wear resistance along with increased dynamic crack-bridging. It is also weather-resistant and chemically resistant to pollutants such as chlorides. The resin has been proving its performance for over 25 years. With the slip resistance class R12, the coating system also ensures slip resistance for cyclists.

Properties of **StoFloor Traffic Elastic TEP MultiTop**

- StoCretec EP surface protection system, hybrid technology
- Crack-bridging
- High wear-resistance
- High resistance to temperature change and temperature shock
- Limited combustibility system build-up

- Various test certifications regarding slip resistance
- Radon-tight according to IAF Measurement (Radeberg, DE)
- In accordance with EN 1504-2 und EN 13813
- Tested system build-up with voluntary external monitoring
- High number of long-term references

The cycling route continues across the access road to a military training area. An overpass approximately 18 metres long was required here. StoFloor Traffic Elastic TEP MultiTop was applied on the bridge caps. Both this overpass and the subsequent underpass under country road 82 were provided with surface protection systems. The ceiling and wall areas as concrete structures at risk of cracking, were coated with **StoWaterproof Mineral Elastic FB** respectively **StoConcrete Protect Elastic RB**. In this way, the bridges and underpass as part of the new cycle route are now ready for long-term use and recreational fun for local cyclists and tourists.

Properties of **StoWaterproof Mineral Elastic FB**

- StoCretec waterproofing build-up
- Protection of concrete structures with a tendency to cracks
- On vertical. Sloping surfaces, and on horizontal surfaces
- Levelling the surface and closing voids and pores outdoors and indoors
- Cementitious, acrylate-modified
- Excellent static and dynamic crack-bridging ability
- Good weathering and ageing resistance
- ~~With~~ increased impermeability
- Resistant to salt spray
- Waterproofing in accordance with DIN 18533 and DIN 18535 as mineral waterproofing slurry
- Tested system build-up with voluntary external monitoring
- Tried and tested material technology

Properties of **StoConcrete Protect Elastic RB**

- Acrylate coating build-up

- Protection and optical design of concrete structure with tendency to cracks, on vertical and sloping surfaces
- Excellent dynamic crack-bridging ability
- Good weather resistance and ageing resistance
- High resistances to salt spray and micro organisms
- Low water absorption, high resistance against alkali, high UV- resistance, hight resistance to frost and de-icing salt, very good water vapour permeability, high carbon dioxide impermeability
- Application by paint brush, roller, or airless sprayer
- Tried and tested material technology
- Various system build-ups with voluntary external monitoring
- EN 1504-2 surface protection system for concrete, EN 1504-9 Repair Principles, OS 5 in accordance with DIN V 18026:2006-06

Who & What

Project:	Cycling path bridges and underpass, HU
Investor:	Veszprém Municipality, HU
Architect:	Főmterv Mérnöki Tervező Zrt., Budapest, HU
Ingineering office:	Via Futura mérnöki Kft., Budapest, HU
Planner:	Static-Plan Kft., Budapest, HU
GC:	Practical Kft., Veszprém, HU
Applicator:	Rowin Alpin Kft., Eplény, HU
Realisation:	5/2023

StoCretec Competences:

StoFloor Traffic Elastic TEP MultiTop

Primer	StoPox GH 205
Coating and wearing course	StoPox TEP MultiTop with StoQuarz 0,1 - 0,5 mm
Broadcasting	StoQuarz 0,6 - 1,2 mm
Sealing coat	StoPur DV 508

StoWaterproof Mineral Elastic FB

Primer	StoCryl GW 200
Scratch coat and	

waterproofing	StoCrete FB

StoConcrete Protect Elastic RB

Primer	StoCryl GW 200
Coating	StoCryl RB in 2 layers

Photos: NexGen Pictures Media Kft.

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