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Reference | UHPC with fibres

BRIDGE REHABILITATION AUTOBAHN A9 RIDDES | SWITZERLAND

Rehabilitation of the longest road bridge in Switzerland.

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PROJECT INFORMATION

Project	Bridge rehabilitation	Fibretype	DM 14/0.175
		Amount of fibres	400 t
Location	Riddes, Valais, Switzerland	Total volume	1,500 m ³ concrete
Application	UHPC with fibres	SPECIAL FEATURE With its 1,250m, the Riddes road bridge is the longest in Switzerland and crosses the A9 freeway, two national roads and the River Rohne. Due to numerous advantages of UHPC with fibres, such as durability and ductility, the significant deficiencies of the viaduct are addressed with steel fibre-reinforced ultra-high performance concrete.	
Component	50mm thick UHPFRC roadway layer		
Constructiontime	June – October 2021		
Requirements	High durability, structural sealing		
Concrete	UHPFRC		

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UP TO 10,000 VEHICLES DAILY - A SAFE RIDE ON UHPC

The well-known viaduct from the seventies is getting on in years. Most recently, the maximum vehicle weight even had to be reduced from 40 tons to 3.5 tons. The prestressed concrete box girder structure showed considerable water leaks, corrosion at the prestressing cables and the reinforcement as well as extensive concrete damage due to an alkali aggregate reaction.

In order to make the bridge passable for heavy traffic again, it was decided to rehabilitate the bridge with ultra-high performance fibre-reinforced concrete, removing the old road surface and the damaged structural concrete. All damaged areas on the box girders and the entire pavement were rehabilitated and reinforced with a 50 mm thick layer of UHPC. In addition to reinforcing the structure, the ultra-high strength steel fiber reinforced concrete also serves as a structural sealing. Thus, the busy bridge can be opened again for the very large trucks in the future.



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OTHER PROJECTS

CATARINA BRIDGE Leiden / Netherlands

Application: UHPC with fibres
Length: 36 m
Fibretype: DG 12.5/0.3 E304

FACADE ARCHITECTURE Odense / Denmark

Application: UHPC with fibres
Fibre content: 140 kg/m³
Fibretype: DG 12.5/0.3 E304

ROADWAY REHABILITATION A61 Kerpen / Germany

Application: Traffic areas
Fibre content: 40 kg/m³
Fibretype: DE 50/0.8 N