

## Renovation of bridge columns with S&P ARMO system

Project: Schneggen bridge (*Schneggenbrücke*) in Glattfelden, Switzerland (ZH/CH)

Year: 2011

Background: The Building Department of Zürich is renovating the column of the Schneggen bridge, located under the central reservation of the motorway, because of concrete damages as well as insufficient concrete cover of the steel reinforcement.

Solution: Some of the concrete surface was grinded off and the edges were rounded off. Damaged concrete parts were rounded off. After wetting the concrete to capillary saturation, the first layer of S&P ARMO-crete w RQ was applied. The ARMO-mesh L200 (carbon fibres in the horizontal direction) was then pressed into the freshly applied mortar. Next, the second layer of ARMO-crete w RQ was applied using the wet-in-wet method, troweled off, and ground to the desired smoothness. A protective coat was applied, thus completing the reinforcement.

Material consumption: 4 tons of S&P ARMO-crete w RQ and 100 m<sup>2</sup> ARMO-mesh L200

Timeframe: 1 day

Images: *a) The substrate after preparation for first mortar coat  
b) Incorporation of the ARMO-mesh L200 horizontally into the still-fresh mortar (in strips)  
c) After the application of the second layer of S&P ARMO-crete w RQ*

a)



b)



c)

