



SIKA AT WORK

STRUCTURAL RETROFITTING OF THE KROUSOVITIS BRIDGE, GREECE

STRENGTHENING: SikaWrap®

BUILDING TRUST





PROJECT DESCRIPTION

The Old Bridge of Krousovitis creek is located on the vertical axis A25 Lagkada - Serres - Promachona in Northern Greece, and will be - at the completion of construction - part of the vertical axis of the National Road. Krousovitis Bridge is supported with a total length of 4 openings of approximately 120 m. Each opening consists of four simply supported prestressed beams, interconnected by transverse girders to support the deck slab. Krousovitis Bridge was constructed at the beginning of the 21st century.

PROJECT REQUIREMENTS

It was necessary to enhance the shear strength of the existing beams due to some alteration in the cross-section dimensions. Additionally, extra load derived from the deck slab strengthening with reinforced concrete was expected.

SikaWrap® strengthening solution was selected in order to avoid extra weight on the beams, and due to the fast application procedure, which allowed the opening to the traffic in a reduced period of time.

SIKA SOLUTION

The Sika solution comprised a full range of repair and protection materials, including repair mortars based on the epoxy Sikadur® 30, structural injections with Sikadur® 52, and a specific protection based on Sika® Ferrogard® 903+ and Sikagard® 680S coating.

The additional shear strength was obtained by means SikaWrap® 300C. The external wrapping of the beams allowed increasing the existing shear strength of the structural members in a fast and efficient way, minimizing the traffic disruption.

Due to the geometry of the cross-sections, additional anchorages based on SikaWrap® FX-50C CFRP cords were displayed, providing supplementary anchorage capacity.

PROJECT PARTICIPANTS

Contractor: TERNA S.A.

Applicator: Conic

Consultant: Egnatia Odos S.A.

Sika Company: Sika Hellas ABEE

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