



# SIKA AT WORK

## BRIDGE DECK PROTECTION FOR BELTON LANE BRIDGE, GRANTHAM, U.K.

WATERPROOFING: Sikalastic® FAST CURING SYSTEM

BUILDING TRUST



# BRIDGE DECK PROTECTION



## PROJECT DESCRIPTION AND REQUIREMENTS

Belton Lane Bridge, located in Grantham UK, crossing Whitham River, had an old bituminous sheet waterproofing layer overlaid with an old worn asphalt concrete as base and wearing course. Due to the bad conditions ingress of water started to attack the concrete of the walk ways and the road. The total surface to be refurbished was 220m<sup>2</sup>.

## PROJECT REQUIREMENTS

Lincolnshire County Council decided to take away the whole existing system, including the bituminous sheets, level out the slightly attacked concrete surface and install a crack bridging, fast curing, spray applied waterproofing membrane, covered with an asphalt concrete overlay and wearing course, tested and certified according the BBA-HAPAS standard.

## SIKA SOLUTIONS AND ADVANTAGES

Sika offered the fast curing, already ETA 033 certified bridge deck waterproofing system. The system consists of the fast setting Sika<sup>®</sup> concrete primer, the spray applied, fast curing Sikalastic<sup>®</sup>-841 ST membrane and the tack coat to the asphalt overlay made of Sika<sup>®</sup> Concrete Primer broadcast with Sikalastic<sup>®</sup>-827 LT hot pelt pellets. This system is fully bonded to the concrete substrate and the asphalt overlay, and it provides excellent adhesion and shear strength.

The project has also been used as the trial bridge for the BBA-HAPAS Certificate. A BBA Inspector was on site all the time to evaluate the work and the performance.

## SIKA PRODUCTS USED:

Primer and levelling coat: Sika<sup>®</sup> Concrete Primer  
Waterproofing membrane: Sikalastic<sup>®</sup>-841 ST  
Tack coat: Sika<sup>®</sup> Concrete Primer broadcasted with Sikalastic<sup>®</sup>-827 LT pellets  
Overlay: Hot rolled asphalt

## PROJECT PARTICIPANTS

Owner & Engineer: Lincolnshire County Council from UK  
Main Contractor: May Gurney  
Specialist Applicator: APA Concrete Repairs Ltd  
Sika organization: Sika Limited U.K.



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