



REFURBISHMENT REHABILITATION OF BRIDGES

AN OVERVIEW FOR SPECIFIERS

BUILDING TRUST

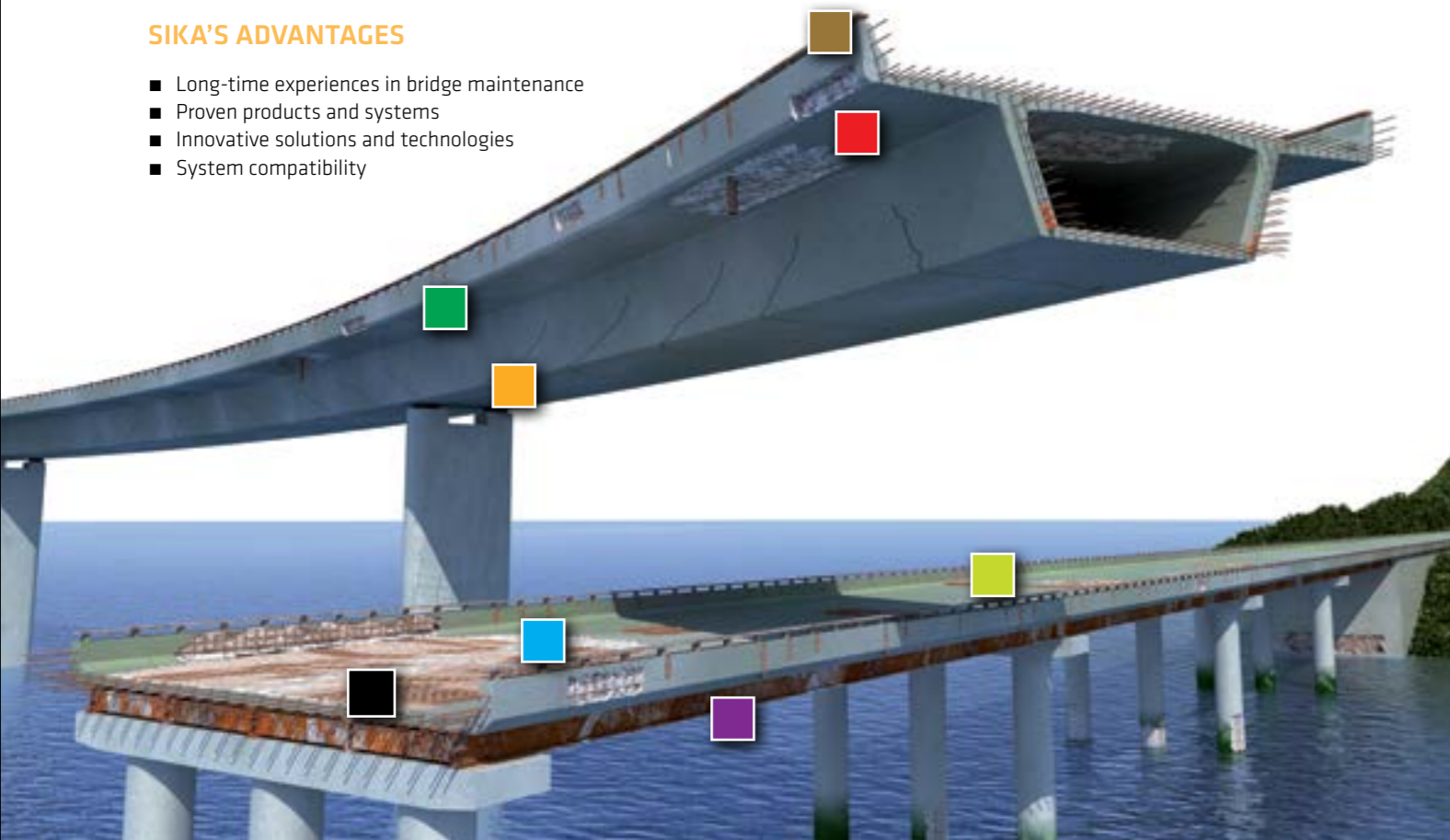


REHABILITATION OF BRIDGES

“Added Value” for specifiers

SIKA'S ADVANTAGES

- Long-time experiences in bridge maintenance
- Proven products and systems
- Innovative solutions and technologies
- System compatibility



SIKA'S FULL RANGE OF SOLUTIONS TO BSEN1504



Sika® ViscoCrete®
SikaRapid®
Sika® Control®

Concrete Technology

- Early high strength concrete
- Water reducing admixtures
- Set-controlling admixtures
- Durability enhancing admixtures
- Concrete essentials



Sika® Carbodur®
SikaWrap®
Sika® CarboStress®

Structural Strengthening

- Flexural strengthening systems
- Shear strengthening systems
- Axial strengthening systems
- Earthquake solutions



Sika® MonoTop®
SikaTop®
SikaCem® 133 Gunite

Concrete Repairs

- Corrosion protection primers
- Bonding primers
- Concrete repair mortars
- Smooth and levelling mortars
- Structural sprayed concrete



SikaGrout®
Sika® FastFix®
Sikadur®

Grouting and Fixing

- Grouting solutions
- Fixing mortars
- Rail fixing solutions

SIKA'S MAIN SOLUTIONS FOR DIFFERENT TYPES OF APPLICATIONS

CASE STUDIES



Brandesholme Bridge

One of Bury's main carriageways remained open when major masonry bridge waterproofing work was carried out. Failure of the waterproofing

decking system led to the requirement for a waterproofing solution to prevent pollutants entering the river below. Sika was able to offer a solution that not only achieved this but did it without any disruption. From the underside of the bridge all work was carried out leaving the road fully in tack and unaffected.
Product used:
Sika® Injection 304.



Mountblow Bridge

As a key part of Clydebank's road infrastructure this project was considerably undertaken so it could remain open for the duration of the works. The repair

and protection of over 500m² of concrete repairs across the structure of the bridge including the soffits, columns, deck and abutment walls was carried out.
Products used:
Sika® MonoTop® system, concrete protection with Sika® FerroGard® corrosion inhibitor and Sikagard® hydrophobic impregnation.



M3 Hawley Bridge

Structural maintenance saw a total of 1,000m of Sika® Carbodur® rods and 5,000m of Sika® Carbodur® plates installed - marking

one of Europe's largest applications of composite reinforcement systems. To deliver exceptional reinforcing capability across the entire application area and achieve compressive strength (f_{ck}) 2,800 N/mm² and E-modulus (E) 165 KN/mm².
Product used:
Sika® Carbodur® structural strengthening system.



North Hull Bridge

With 21,000 daily vehicle crossings as well as opening several times a day for waterway traffic, the Grade II listed North Bridge in Hull was in need of refurbishment due to corrosion of the

reinforcement taking place and spalling concretes. The main type of attack on the control building came in the form of carbonation of the concrete.
Products used:
Sika concrete protection systems, Sika® FerroGard® corrosion inhibitor, Sikagard® protective coatings, Sika® MonoTop® repair mortar and Sika®-Armorex® Armocrete micro-concrete repair system.



Sika® Galvashield®
Sikagard®
Sika® FerroGard®

Concrete Protection

- Hydrophobic impregnations
- Impregnations
- Rigid and flexible coatings
- Corrosion inhibitors
- Galvanic cathodic protection systems



Sikalastic® 841 ST
Certified BBA/HAPAS approved
Sika® Injection
SikaProof® A

Waterproofing Solutions

- Joint waterproofing
- Structural, flexible and ductile injections
- Epoxy overlay
- Liquid applied membranes
- Adhesion promoter asphalt to waterproofing layer



SikaCor®
Sika® Elastomastic®
Sika® Poicolor®
Sika® Unitherm®

Steel Protection

- Corrosion protection systems for construction steel
- Steel cable protection systems
- Maintenance solutions for existing coatings



Sikadur®
Sika® AnchorFix®

Structural Bonding

- Epoxy adhesives for concrete and steel
- Anchoring solutions

SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:



WATERPROOFING



CONCRETE



REFURBISHMENT



DISTRIBUTION



SEALING AND BONDING



FLOORING



ROOFING



INDUSTRY

FOR MORE INFORMATION:



WHO WE ARE

Sika Limited is part of the global Sika Group, specialising in the manufacture and supply of chemical based products for construction and industry. Sika is a world-leader in its field with subsidiaries in more than 80 countries, 15,200 employees, and annual sales of CHF 4.8 billion (£3.3bn). We are also committed to providing quality, service, safety and environmental care.

In the UK, we provide market-leading solutions for concrete, waterproofing, roofing, flooring, refurbishment, sealing & bonding, and industry, and have manufacturing sites in Welwyn Garden City, Preston, and Leeds with 700 employees and a turnover of £190 million.

The information, and, in particular, the recommendations relating to the application and end use of Sika® products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request.



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