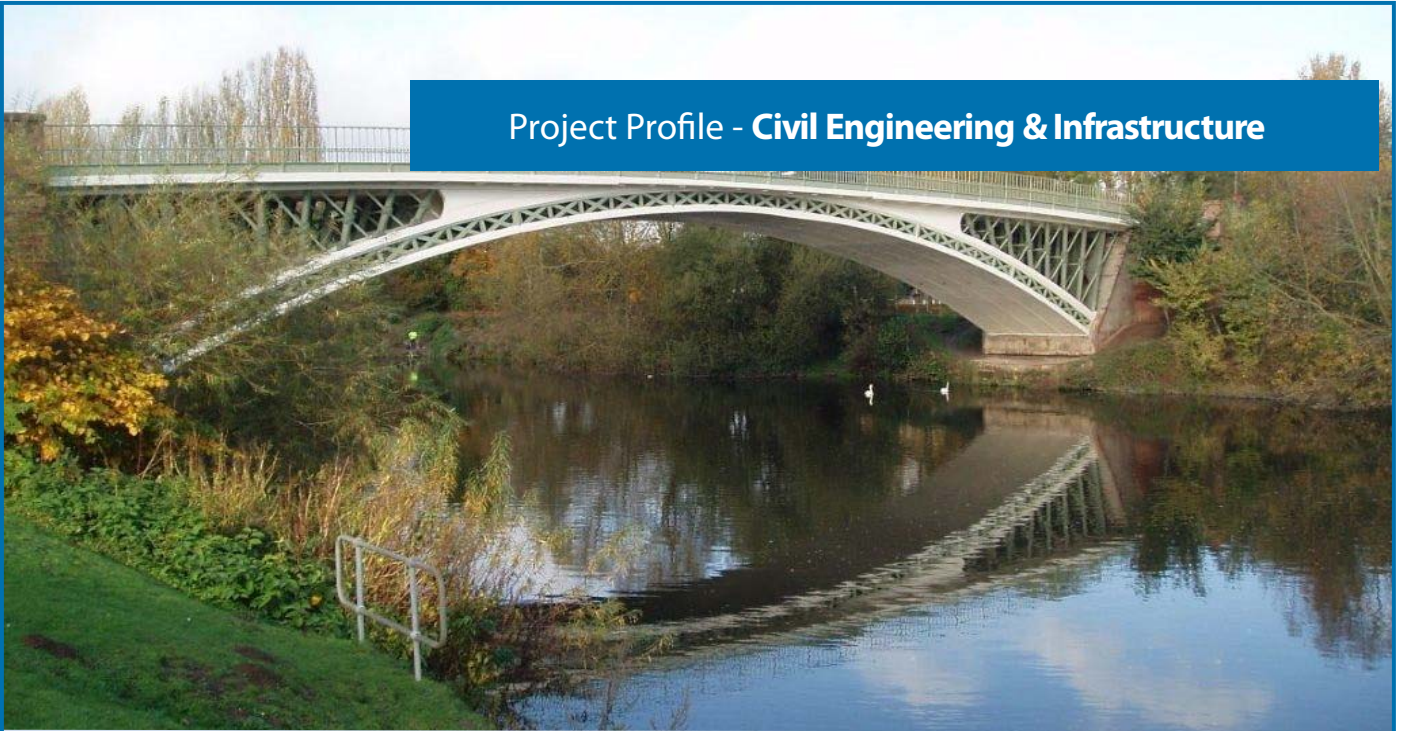


Project Profile - Civil Engineering & Infrastructure



PROJECT

Holt Fleet Bridge, Worcestershire

SUMMARY

Concrete repair and protection, followed by an anti-carbonation decorative finish

PRODUCTS

Monolite
Cementitious Coating 851
Monodex Smooth

CLIENT

Worcestershire County Council

CONTRACTOR

VolkerLaser Limited, TEK Coatings Limited

BACKGROUND ►

Holt Fleet Bridge is a 200-year old, Grade II listed structure which carries the busy A443 across the River Severn.

Spanning 46 metres, the historic bridge was originally designed by Thomas Telford - one of Britain's greatest engineers - and was opened in 1928. The cast iron structure needed strengthening some 100 years later when the upper and lower parts of each rib and some of the diagonal struts above them were encased in concrete. At the same time, the road deck was widened and rebuilt in reinforced concrete. A further eight decades of use by increasingly heavy vehicles had led to serious deterioration of the bridge. To extend the life span of the structure and to preserve this historic construction, a complete restoration project was required.

THE SOLUTION ►

Flexcrete provided a complete range of repair, protection and decorative products for the project, namely **Monolite** - a lightweight mortar that easily achieves 100mm in a single application - and **Cementitious Coating 851** - applied to the underside of the structure to reinstate concrete cover, provide structural waterproofing and protect against chloride ingress and carbonation. A decorative, waterproof and anti-carbonation finish was achieved with **Monodex Smooth**, a water-based coating applied in Spruce Green to the struts and parapets, and Magnolia on the framework. **Monolite** is certified to EN 1504-3, whilst **851** and **Monodex Smooth** are both certified to EN 1504-2. The work was carried out within budget and the road was fully reopened a month earlier than anticipated.



FM 41091
EMS 597350
OHS 597351

Quality
Environmental
Health & Safety

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