

Project Profile - Civil Engineering & Infrastructure



PROJECT

White Horse Bridge, Wembley Stadium Railway Station, London

SUMMARY

Reinstatement of concrete cover on recently cast abutments

PRODUCTS

Cemprotec E942

CONTRACTOR

Edmund Nuttall Limited

DESIGNER

Halcrow Group Limited

BACKGROUND ▶

The White Horse Bridge is a state-of-the-art £20 million footbridge that crosses Wembley Stadium Railway Station leading up to the new Wembley Stadium. Constructed in 2006 and designed by London Eye architects Marks Barfield, the name of the bridge was decided via an online poll hosted by BBC Five Live in conjunction with the London Development Agency. The chosen name commemorates the first FA Cup final to be held at the old stadium in 1923 with the famous image of Billy, a white horse, clearing a pitch invasion after an estimated 250,000 people flooded the ground.

THE SOLUTION ▶

Cemprotec E942, a two component, waterborne, epoxy and cementitious modified polymer coating, was chosen for this project due to its ability to effectively reinstate cover. A 2mm coating of **Cemprotec E942** affords in excess of an additional 100mm of effective cover, as well as providing a complete barrier to water under 10 bar pressure. Being cement based, it chemically reacts with the substrate to form an integral part and will have a design life equivalent to that of the concrete to which it is applied. **Cemprotec E942** can be applied to green concrete by brush or spray techniques, exhibits minimal hazard and is non-toxic when cured. **Cemprotec E942** does not require specialist skills or equipment during application and rapidly cures to enable early backfilling - an important consideration to minimise disruption to construction schedules. It cures to produce an exceptionally hard, durable coating with excellent resistance to water, chloride ions, oxygen and aggressive chemicals.



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OHS 597351

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Flexcrete Technologies Limited
Tomlinson Road • Leyland
Lancashire • United Kingdom
PR25 2DY

Tel: +44 (0) 845 260 7005 • Fax: +44 (0) 845 260 7006
Email: web@flexcrete.com • Web: www.flexcrete.com

