



Client | Jones Lang Lasalle Role | Principal Contractor

2-Storey Car Park

Backcester Lane Car Park, Lichfield

SCOPE

 Concrete Repair
Corrosion Management (Anodes)
Anti-Carbonation Coatings
Deck Waterproofing

DETAILS

Town centre car park
1,400m² soffits, columns & walls protected with anti-carbonation coatings

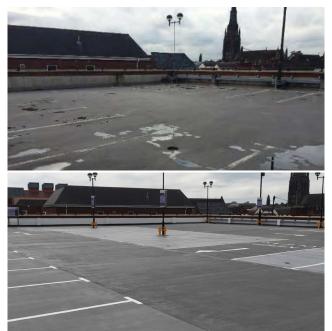
// 1,000m² parking deck rewaterproofed

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Case Study Car Parks

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Before: Damaged and Split Parking Decks

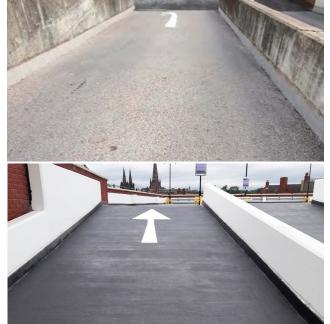


After: Fully Protected Decks

The scope of this refurbishment was to carry out concrete repairs to the structural beams of this 2-storey car park, which was previously protected with the use of netting to catch any spalling concrete.

Following a hammer survey, anodes were installed Sika's Ferrogard 903 was applied to help prevent further corrosion. Once the concrete repairs were completed,





After: Protected Ramps

some 1400m² of concrete surfaces were coated in anti-carbonation coatings. Galvanised steel angles were then erected along all structural beams with a polyslip membrane to reduce friction between the structural beams and the pre-cast concrete planks.

The top deck had several splits and wheel indentations in the asphalt substrate leading long term water ingress. Before: Damaged Structural Beams & Columns



After: Repaired & Protected Structural Beams & Columns

Once the substrate was prepared, all imperfections were levelled off and repaired before Sika's enhanced decking system RB28 could be applied. Due to the hot weather, some of the waterproofing works had to be completed at night to allow for the asphalt to cool.

Our package of works included refurbishing the drainage channels, lampposts and barriers as well as installing new bollards for the existing signage on the top deck.



Cemplas Waterproofing & Concrete Repairs Ltd

Cemplas House, 25A, Breakfield, Ullswater Industrial Estate, Coulsdon CR5 2HS

T: 020 8654 3149 **F:** 020 8656 6984

E: info@cemplas.co.uk W: www.cemplas.co.uk

