

CASE STUDY

Concrete Repairs & 9 Staircase Installations

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PROJECT

Bedfont Lakes Car Park,
Feltham

STRUCTURE

Underground Car Park

CLIENT

Ridge & Partners LLP

CONTRACT

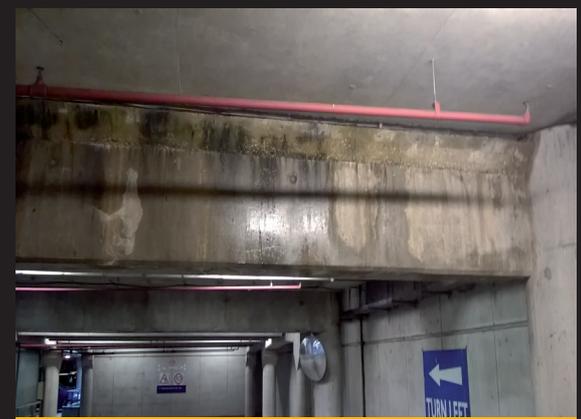
Bedfont Lakes office park in Feltham is a thriving business community served by a modern and efficient infrastructure which is home to a number of national and international companies such as Birds Eye, IBM, Lindt & Sprungli (UK), and Cisco Systems to name a few. Located in beautiful rural grounds of the well-established country park, it provides an un-spoilt working environment with the opportunity to live and work in a non-urban location whilst having nearby recreational opportunities on your doorstep.

The business parks car parks all provided underground parking, and there were significant problems which required car park repairs, including concrete repairs, replacement of car park pre-cast concrete staircases, and repairs to existing concrete beams and works required to associated ground works.

The car park was to remain in operation at all times and was therefore a live site. With 9 pre-cast stairwells, and concrete repairs required throughout the car parks, the repairs were carried out in 4 phases.



Before



Before

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CASE STUDY

Multi-Storey Car Park Refurbishment

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Stairwells before



Corroded Concrete Steps



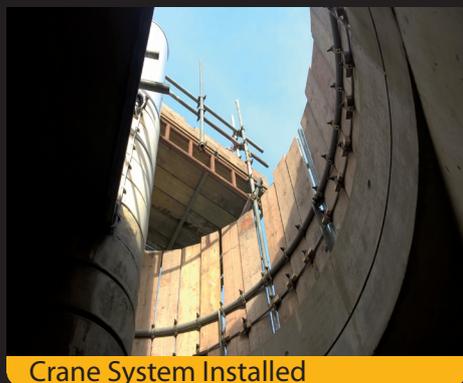
Glass Kiosks remain in-situ

Each pre-cast stairwell is an entrance to the underground level which were open to the weather and elements. Over time they had deteriorated and become fragile through corrosion and 9 stairwells were to be demolished as there was extensive corrosion and cracks within the structures.

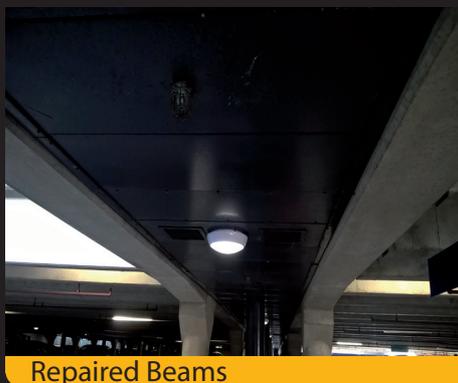
Each stairwell was situated in its own confined concrete stair shaft with a glass kiosk at the underground level making it a tight confined space in which to work when removing the pre-existing concrete stairs. The kiosks were fully boarded up and protected whilst each staircase was systematically removed and demolished. A crane system was designed to lift out the steps individually due to their weight and were transferred to nearby skips.

Each staircase was individually measured, sized and made prefabricated off site and reassembled on site. The spiral handrails were made to each individual silo. All the work was carried out meticulously to ensure that the glass kiosks remained in situ and unblemished.

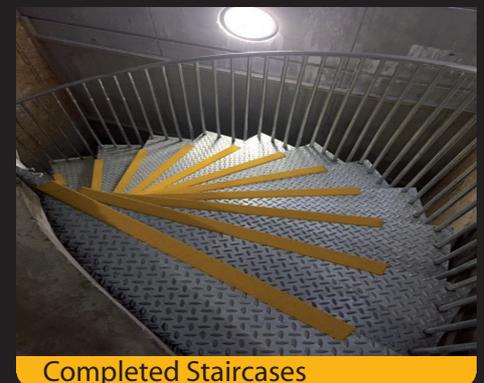
The tarmacked entrance and ramp area were seeping water down through to the car park, causing corrosion to beams which required concrete repair. Groundworks required the removal of the tarmac to allow an embedded waterproofing system of Sika RB58. The tarmac was replaced and concrete repairs to the beams were carried out using Sika Monotop System Aqua Primmer 552, Ferroguard 903 Corrosion Inhibitor and 550W Elastocolour coating.



Crane System Installed



Repaired Beams



Completed Staircases

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