

# CASE STUDY

## Enhancing Parking Experience at Entertainment Venues

# MAKERS

...makes the difference

### PROJECT

Barclaycard Arena North Car Park

### STRUCTURE

Single Parking Deck

### CLIENT

NEC Group

### CONTRACT VALUE

£200,000 circa

### CONTRACT



Previously known as the National Indoor Arena in the heart of Birmingham city, the newly re-named Barclaycard Arena has over 2,000 on-site car park spaces across our four modern multi-storey car parks. Several years ago, it was recognised that the maintenance of the venue's new parking structures was of paramount importance and as such, a detailed Lifecare Plan was commissioned by the Arena's owners.

The output of the Lifecare Plan was to progressively maintain each of the parking structures by ensuring that the parking decks were kept in good condition with a durable car park deck waterproofing system. Of equal importance to preventing the development and spread of defects to the Arena's four multi storey car parks was to ensure that movement joints were made watertight and that deck appearance should be optimised using contrasting colours to identify drive aisles and parking bays.

Makers were appointed to carry out works to a combination of top and intermediate deck areas as well as re-waterproofing existing failing movement joints.



Before



Before

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## Accreditations



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Failed Waterproof



Top Deck Preparation



Stages of Waterproofing

The parking structures were built as part of the overall Arena which opened in 1991 which at the time, made it the largest sports and entertainment venue in the UK.

The car parks – which are of reinforced concrete frame with inverted-trough deck construction – were only top-deck waterproofed with a proprietary car park deck waterproofing system when first constructed. The main decks on the intermediate levels were not treated.

The top deck of the NORTH car park had reached the end of service life and had failed allowing ingress of water and de-icing salts into the parent concrete. This resulted in the development and spread of defects which would require repair prior to re-waterproofing. Following careful preparation of the top deck – split deck levels 8 & 9 – concrete repairs to the parking deck were completed and Triflex's DFS protective Deckfloor system was applied to the whole top deck surface area. All the movement joints were also replaced with the joint-face-adhered Emseal DSM system.

The intermediate decks had waterproofing treatments applied to the ramps & turning circles only so the deck surface had to be prepared by captive shot-blasting to remove surface laitance and other contaminants. Again, Triflex's Deckfloor waterproof car park decking system was applied to all deck areas in contrasting colours with drive aisles in dark grey, parking bays in light grey and a new pedestrian walkway highlighted in bright blue. Specially designated areas such as disabled parking or emergency vehicles only were highlighted in red with yellow linemarking and cross-hatching.



Area Demarcation



Enhanced Internals



Top Deck Refurbished

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