

CASE STUDY

Improving Shoppers' Parking Experience

MAKERS

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PROJECT

Northfield Shopping Centre
Car Park

STRUCTURE

Car Park

CLIENT

Mars Pension Trustees Ltd

CONTRACT VALUE

£575,000 circa

CONTRACT



Northfield – a centre of the Midland's Nail Making industry in the 19th Century and only a short distance from the former Austin Motors car factory at Longbridge – is home to Northfield Shopping Centre. Built in the early 1980's and formerly known as the Grosvenor Shopping Centre, the car park at the centre has approximately 650 parking spaces situated over two levels with one level being enclosed and the others at first floor level and open-air.

Access up to the car park is via a long ramp to the main open-air podium deck parking area which is directly above Wilkinson's retail store. The parking deck was waterproofed with asphalt which had many splits and cracks which was letting water into the retail space directly below.

The reinforced concrete parapet walls and other structural elements to the ramp were in much need of repair as were the badly leaking movement joints in the ramp's surface which had been patched up many times over the years in an attempt to prevent water getting in.



Before



Before

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Registered in England No: 6348341 Registered Office as above

Association Membership



Accreditations



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Lack of Maintenance



Ramp in Poor Condition



Open Deck Complete

The existing asphalt surface of the exposed parking deck areas had to be prepared by planing to remove many of the imperfections. Once planed, the splits and cracks in the asphalt were repaired including levelling out unsightly wheel divots created by the load impact of car wheels over time. Pre-cast kerbs that had been originally laid along the full length of both sides of the access ramp and sitting on top of the existing asphalt had to be taken up by hand and stored at site in readiness to be put back once the re-waterproofing works were carried out.

Many of the longitudinal daywork joints in the asphalt surface had been badly damaged by constant vehicular traffic. Again, these too had been poorly repaired and patched up over the years culminating in a need to completely cut out the failed areas and reinstate. The damaged asphalt was cut back approximately 100mm either side of the daywork joints and reinstated to original line and level using a fast setting repair mortar. To ensure future water tightness, the re-formed joints were overbanded with a reinforced fleece layer followed by complete encapsulation with Triflex's PRO-Park car park decking system which was applied across the whole of the repaired parking deck.

Following reinstatement of the movement joints, these were made watertight with Emseal's DSM watertight car park deck jointing system. The repaired asphalt surface of the main access ramp was re-waterproofed using Triflex's DFS system, a heavy duty wearing layer designed specifically for high-wear areas in car parks. The kerbs were reinstated either side of the ramps with the main entrance and exit barriers replaced as part of the project.



Repaired & Protected



Ramp Transformed



Complete

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