

# CASE STUDY

## Deck Waterproofing

# MAKERS

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### PROJECT

Middleton Shopping Centre  
Car Park

### STRUCTURE

Top Deck Car Park

### CLIENT

Black Cat Building Consultancy

### CONTRACT



Middleton Shopping Centre is located in the heart of Middleton Town Centre. It has 335,480 sq ft set over three floors and forms the prime retail destination in the town with an annual footfall of 4.1 million per year.

Makers Construction were instructed to carry out the refurbishments and deck waterproofing. The car park had to remain open at all times so inevitably was a live site, incorporating traffic management and the safety of all.

The top deck car park is located above the shopping centre and was suffering from ponding and drainage issues which was caused by uneven substrate. There was a lift shaft which serviced the store below which was no longer in operation but allowing water ingress down the shaft into the store.

The layout of the car park bays was previously set on a diagonal design, so a proposed new layout and directional signage were approved.

The rearranging of bays created additional parking bays generating additional income and wider drive lanes.



Before



Before

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### Association Membership



### Accreditations



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Removal of islands



Parapet Walls Repaired



Line Markings Removed

All loose fixtures and fitting were removed and the parapet walls and coping stones were jet washed ready for concrete repair and painting and redecoration of rendering. Installation of capping details to existing coping stones and the removal of redundant barriers and re-instatement of new barriers were carried out.

The redundant canopy and balustrading previously used for the lift entrance and trolley storage were removed, and the lift shaft sealed to prevent the water ingress previously experienced.

With the new proposed layout, the existing diagonal line markings were removed and there were islands which were no longer required and therefore removed, this also required investigation and repairs to drainage channels prior to deck repairs.

The existing failing expansion joints on the main entry and exit ramps were removed and replaced with new Emseal TM gland joint providing a 10-year warranty.

Sika Monotop 615 was used for the concrete repairs and Dulux Smooth Masonry paint applied to parapet walls.

The new waterproof deck was a Triflex system, Deckfloor R which needed no primer as it was an overlay to previous system. The Triflex system gives the client a 10 warranty and Makers Construction provided a 10-year warranty on materials and workmanship.



After



After



After

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