

CASE STUDY

Car Park Deck Waterproofing

MAKERS

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PROJECT

Crowngate Shopping Centre
MSCP

STRUCTURE

Multi-storey Car Park

CLIENT

Crown Estates

CONTRACT



Built in part on the historic site of Blackfriars Monastery and replacing the former Blackfriars Shopping Centre, Crowngate Shopping Centre is Worcester's largest shopping centre located in the heart of the city.

Home to many well-known retail brands such as House of Fraser, Primark and a host of restaurants and cafés. It also houses the city's bus station and a safe and secure 750 space car park which is open 24/7.

The 750 space car park is located above the bus station and level 1 and 2 over occupied decks were seeping rain water through to the lower ground bus station causing damage to the structure.

Makers were awarded the contract after winning the tendering process.

The car park refurbishment was an ideal time to reassess the layout and it allowed for redesign of bay locations. The disabled bays and the newly created accessible bays were relocated nearer to the shops and now provide parking for not only parent and child or qualified blue badge holders, but for anyone who may require easier accessibility.



Before



Before

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Accreditations



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Before



Before



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The car park is operational 24 hours, 7 days a week, so it was a live site and works were carried out throughout the night providing a traffic management system at all times allowing for the least amount of disruption and ensuring upmost access and protection for users and pedestrians throughout the duration of the contract.

The decks were asphalt with no coatings and minimal tamping in small areas and smooth on the majority. Acoustic sheeting was erected to minimise noise and dust escaping to surrounding areas. The decks were prepared with line marking removal by captive blasting, and speed bumps were removed throughout with repair and infill to residual damage.

The asphalt decks were prepped and repaired with Triflex DeckFloor System to remove wheel indentations and all upstands and banding detail were refurbished and installed.

To the high wear areas of the deck and ramps i.e. vehicle turning points, road junctions and both top and bottom of the ingress and egress ramps emery aggregate in the Triflex DeckFloor System was applied.

Within the car park were pedestrian ramps and stairs which all received the Triflex DeckFloor System with new yellow nosings.

Special attention was applied to the barrier entrance, where induction loops for the barrier entry system were embedded within the deck. To ensure the magnetic field continued to operate – that small section of deck was treated with primer and waterproof coating and colour only, with the omission of the aggregate quartz layer in order to allow the magnetic field in the deck to still operate the lowering of the barrier once cars had entered.



After



After



After

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