

Project:

Halton Lea Car Parks

Location:

Runcorn

Owner/s:

F & C Reit

Applicator/Contractor:

USL StructureCare

Designer/Architect/Specifier:

Curtins Consulting

Market sector:

Car Parks

Products used:

MasterSeal Traffic 2257

MasterSeal Traffic 2205

MasterProtect 8000 CI

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Halton Lea Car Parks, Runcorn

Refurbishment of Multi Story Car Parks



Our reference in Runcorn (United Kingdom): Halton Lea Car Parks

The background

Halton Lea Multi Storey Car Park near Runcorn underwent essential refurbishment works to improve the structural serviceability of the car park as part of its long-term maintenance strategy, providing a more-user friendly parking experience.

Opened in 1972, Halton Lea, formerly known as Runcorn Shopping Village, is a medium-sized shopping centre. It was the first 'American style' shopping centre to be built in the UK and at the time was one of the largest in Europe. Wear and tear meant the original car park, which is now one of the centre's four car parks, was the first to have a substantial makeover.

The challenge

Three of Halton Lea's four 10-storey MSCPs were in need of refurbishment. The red, yellow and blue car parks were identical and were to be refurbished within a very quick timescale, within which the car parks had to be kept fully operational.

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Our solution

Looking at the concrete repair and protection needed, it was decided that a full-scale essential maintenance package was needed. On USL StructureCare's advice, the existing specification was overturned in favour of MasterSeal Traffic deck membrane.

To ensure that as much of the car park as possible was kept open during refurbishments and to minimise disruption to users, no more than 40% of all parking bays were taken out of action at any one time.

The existing coatings had to be removed and the surfaces brought up from a rough tamp to U3 grade. This was achieved by grinding and then filling with Master Builders Solutions' MasterTop 524, a fast-setting, pumpable, self-levelling screed. Once the decks had been prepared and blasted, it became apparent that the concrete substrate contained Lytag aggregate, making it more porous than normal. This meant that extra primer had to be applied before the MasterSeal Traffic coating was installed.

Once the decks and ramps had been prepared and made good, they were coated with products from Master Builders Solutions' MasterSeal Traffic range to provide protection against chloride and water ingress.

The fully elastomeric MasterSeal Traffic 2205 was used on the exposed roof decks and MasterSeal Traffic 2257, a fast-curing system, was used as an intermediate deck coating on covered levels.

Benefits to the customer

- The client had been particularly won over by Master Builders Solutions' offering as it was important to achieve a single source of supply for all systems used on the refurbishment contract.
- The refurbishment project had the primary function of essential maintenance. Thanks to the systems used, it also made a radical difference to the visual appeal, efficiency and safety of the car park, leaving a bright, clean and inviting place to park.
- Customers now enjoy a vastly improved and very positive car parking experience, and the shopping centre management is proud of the car park's new look and feel.

Projects facts at a glance

- Three car parks requiring refurbishment
- 10-storey structures
- Concrete repair and protection followed by deck membrane installation
- Coatings protected against chloride and water ingress

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Further information is available at:
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