



Project Case Study

Project:

Leapale Road Car Park

PROJECT CLIENT:

Guildford Borough Council

PROJECT COMPLETED:

November 2021

AREA:

9,500m²

SPECIFIED PRODUCTS:

- DeckProtect+MMA External
- DeckProtect+MMA Internal
- DeckProtect+MMA HB Internal

STRUCTURE:

Multi-Storey Car Park

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Leapale Road car park is a red brick car park built in the 1980s, in the centre of Guildford, Surrey.

Following a competitive tender process, StructureCare were selected as the contractor of choice by Guildford Borough Council to undertake the refurbishment works to the MSCP. Stripe Consulting were the Principal Designer on the scheme, and it took 12 weeks altogether to complete the works.

The car park consists of twelve split level parking decks, and the primary structure of the car park is a precast, concrete frame. The decks are constructed from transverse spanning concrete planks which support the slab, and they are supported on precast, reinforced concrete columns, with a brickwork façade to external elevations.

The internal parking decks were mostly uncoated, and consisted of a brushed concrete finish with thermoplastic line markings, to provide parking bay delineation. The semi-exposed areas on Level 3 had deck coatings applied, and both the exposed top decks and ramps also had an existing waterproof coating installed, however this was worn and delaminating in several locations, with staining visible on level 9 & 10's soffits.



Scope of Works

StructureCare's scope of works involved re-surfacing all car park decks, and applying high quality, easy to clean and durable protective deck coatings, to improve the aesthetics within the car park. This also prevented further water and salt ingress into the concrete structure.

Furthermore, concrete repairs were also undertaken to all levels of the structure, using high build, lightweight, fibre-reinforced and cementitious repair materials. In addition, PatchGuard 350 anodes were installed around the perimeter of all repaired concrete areas. This was to prevent the incipient anode formation in adjacent chloride-contaminated concrete. In terms of concrete repairs, 849.00m² of repairs were undertaken throughout the MSCP. IN total 9,500m² of Deck coatings were applied to all levels of the car park.

One challenge that StructureCare overcame on this project, was that the car park was to remain open to the public during the refurbishment works and, therefore, StructureCare had to take this into account when planning the works. StructureCare prepared and issued a detailed phased works programme which was approved by the Principal Designer on the scheme prior to the project's commencement. Ultimately, StructureCare undertook the works in separate phases in order to minimise disruption to the on-going car park operation.



Client Feedback

The client feedback received from the Principal Designer on the scheme was excellent,

"It has been fantastic working with StructureCare on the refurbishment of the Leapale Road Car Park, breathing new life into this MSCP structure for the community to utilise for many years to come."

Ultimately, the project presented several challenges but was a huge success for the StructureCare team, and the MSCP has been transformed. The works were completed to everyone's satisfaction with Ross Harle, Project Manager at StructureCare explaining:

"We faced numerous challenges along the way, such as managing a live construction site, whilst maintaining traffic flow throughout the very narrow car park. It was essential that this project was planned perfectly to ensure the it ran smoothly without any disruption. I am delighted that the team managed this, and believe the finished result speaks for itself".

If your car park is in need of a refurbishment, please do not hesitate to get in touch with StructureCare for a free site survey and specification.

Email info@structurecare.com or complete our online enquiry form: <https://www.structurecare.com/contactus/>

CONTACT US:

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Project Images

