

STRUCTURES CASE STUDY

Car Park Refurbishment

MAKERS

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PROJECT

St Giles MSCP, Norwich

STRUCTURE

Multi-Storey Car Park

CLIENT

Norwich City Council

CONTRACT DURATION

16 Weeks

CONTRACT



Back in 1999 Makers refurbished the St Giles Multi-Storey car park built in 1966, 18 years on we returned to provide a full refurbishment programme that will see it through until its next makeover.

St Giles car park is a 10 parking level landlocked structure with a compact 330 spaces located in the City Centre of Norwich and accessed by a busy high street.

The existing membranes consisted of a Sika Elastomeric polyurethane 350 system which was laid directly onto the concrete substrate, but the interdecks were also a polyurethane product manufactured by Flowcrete and also applied directly to the concrete slabs.

The requirement of the contract was for the car park to remain live at all times and although the membranes had performed exceptionally well over the years, traffic wear meant that the systems were at the end of their life cycle. This meant that the old membranes had to be replaced if they were to protect the concrete slabs for the rigours of modern day parking environment.

The existing coatings were milled off and decks were repaired, blasted, followed by a series of pull off adhesion tests to ensure tensile strength of the substrate was sufficient for the bond required by the new membrane.

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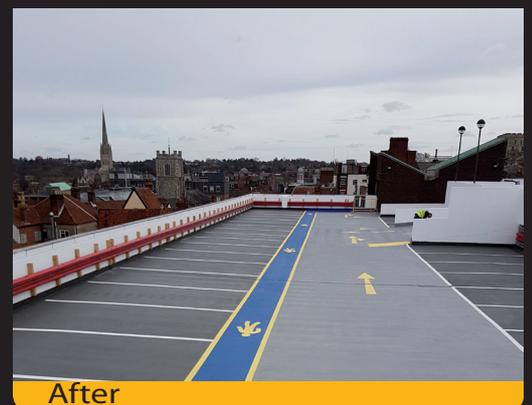
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Before



After

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CASE STUDY

Structural Refurbishment and Repair

MAKERS

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Before



Before



Before

Concrete repairs were carried out to soffits, wall columns and parking decks of all levels. The impact barriers were corroding and their fixings questionable. It required the removal and replacement of all wall fixings and the making good of the impact barrier system.

Movement joints had come to the end of their life cycle capability showing signs of leaks. Concrete repairs were appearing in the structure and all ancillaries including cast rainwater goods and metal railings had peeling paint coatings and were beginning to rust. The deck level indicators, road markings and signage colour scheme was tired and needed refreshing.

The overall appearance of the car park was tired, dark and gloomy with a traditionally old colour scheme of green, red, yellow black and white from back in the day and this was in spite of a new lighting system recently installed before refurbishment.



After



After



After

The Sika waterproofing system had been selected by the client and the old exposed top deck coating was replaced with the new Sika RB58 Banded System. The fast cure PMMA System was chosen to ensure that parking was returned as quickly as possible back to the authority.

The existing Flowcrete systems to the interdecks were also removed by milled planing and a new Sika Inter-deck RB28 system installed. Repair and waterproof banding was installed followed by the Fastcure PMMA system. Due to the tightness of the car park layout, ramps, turning circles and hammerhead received an enhanced specification thickness to deal with the expected increase in wheel traction.

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