

CASE STUDY

Top Deck Parking

MAKERS

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PROJECT

Abbey Walk MSCP, Grimsby

STRUCTURE

Multi Storey Car Park

CLIENT

North East Lincolnshire Council / ENGIE

CONTRACT VALUE

£250,000 circa

CONTRACT



Abbey Walk MSCP is a 5 Storey, 10 level car park owned and operated by North East Lincolnshire Council. The multi-storey car park is situated in Grimsby's town centre and is close to the railway station providing 428 long stay parking spaces for the general public using the pay and display format.

As part of an investment programme on behalf of North East Lincolnshire Borough Council the works were essential to improve the condition of the car park and encourage more users to the popular town centre car park.

The asphalt top deck was suffering from water penetration to the lower decks and required removal prior to application of the deck coatings.

Makers were engaged to remove 50mm of the existing asphalt which had become fatigued, prepare the remaining surface and install Sika RB 58 fully reinforced deck membrane system and to carry out the replacement and installation of the existing movement joint using Emseal DSM.



Before



Before

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Registered in England No: 6348341 Registered Office as above

Association Membership



Accreditations



CASE STUDY

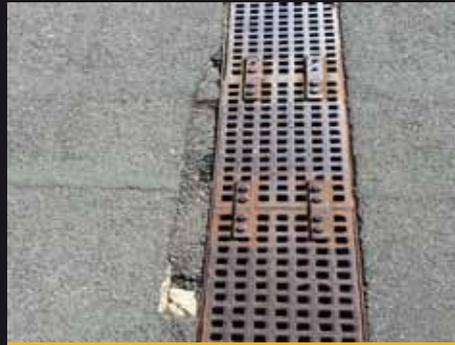
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Decaying Concrete Parapets



Blistered Asphalt



Failing Bay Joints

The exposed reinforced concrete deck surface was prepared by planing to remove surface laitance & contaminants to provide a suitable substrate followed by a captive blast, onto which Sika's fully mesh-reinforced RB58 System to 2,500m² was applied. The wearing surface was applied in contrasting colours – dark grey for drive aisles, blue for the parking bays and a green walkway, all outlined with white thermoplastic markings.

Following removal of the existing joint material, arrisses either side of joint were repaired and reformed. Emseal DSM was then installed to the top deck and Emseal Colorseal was installed to the parapets.

The drainage needed to be modified and existing gullies to be repaired and waterproofed. New drainage outlets were installed to the deck of the car park after the removal of the asphalt to ensure the outlets were flush with the new substrate levels. New drainage channel grids were installed following repairs to the channel. The perimeter reinforced concrete parapet wall had previously been uncoated and was in need of minor repairs, following repairs and preparations Makers applied the Sikagard 550W System. Whilst working on the decks of the car park other structural concrete repairs took place on the soffit beams as these were suffering from chloride ingress.



Even though the two top decks were closed to the general public, the remaining car park continued to stay open throughout the contract and all works required were completed on time and within the agreed contract programme and guaranteed for 10 years under the Sika Warranty.



Parapets Repaired



Rooftop Parking Area



Use of Contrasting Colours

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