

STRUCTURES CASE STUDY

Asphalt Re-waterproofing

MAKERS

...makes the difference

PROJECT

Elmsleigh SC Car Park, Staines

STRUCTURE

Car Park

CLIENT

Runnymede Borough Council

CONTRACT VALUE

£288,484

CONTRACT



Built in the mid-1970's, Elmsleigh Shopping Centre MSCP – which has a parking capacity of 460 parking spaces - is one of two car park structures that form an integral part of this Shopping Centre in Staines which was officially opened in 1980 by HM The Queen.

The works required to be completed by Makers were to carry out repairs and re-waterproofing of the asphalt wearing surface of the top split-level parking deck to which a coloured car park deck waterproofing system had been previously applied.

A range of defects to the wearing surface were allowing water ingress into the parent concrete substrate that was leaking through the concrete decks down into the parking spaces below.

Makers were awarded the contract to carry out the necessary repairs and waterproof coating works to remedy the defects on the top decks including the replacement of the existing failed movement joints in the deck. The re-application of protective coatings to the reinforced concrete parapet walls was also required to improve the overall parking environment at Elmsleigh and enhance customer experience of the car park.



Before



Before

T : 08458 994444

F : 01543 480676

E : enquiries@makers.biz

W : www.makers.biz

Makers Office Building 4,
Shenstone Business Park
Lynn Lane, Shenstone, WS14 0SB

Registered in England No: 6348341 Registered Office as above

Association Membership



Accreditations



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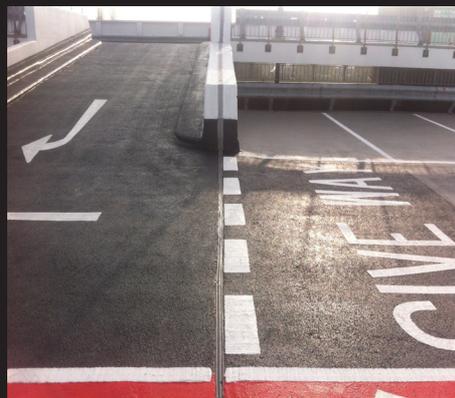
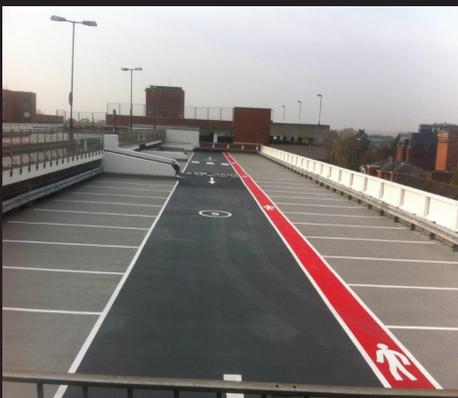
...makes the difference



During the pre-tender design stage of the project, investigation works identified that the asphalt wearing course on the decks was substantially thinner in many areas than was normally required. The consequence of this was that an alternative surface preparation method was required to prepare the existing coloured surface rather than to remove it completely by planing.

Prior to the application of the new coloured waterproof wearing surface, repairs to the asphalt were required. The existing failed movement joints had to be cut out and replaced with Emseal DSM, an expanding, joint-face adhered movement joint system. Following removal of the failed joint material, the joints were re-formed to the correct dimensions and the newly formed joint walls prepared to receive the structural adhesive. Once in situ, DSM expands into the joint ensuring 100% adhesion with the structural adhesive at the bond interface ensuring permanently watertight movement joints.

With the existing coloured deck treatment prepared in-situ by abrading and solvent wiping to remove surface contaminants, Triflex's Deckfloor car park deck waterproofing system was applied to approximately 5,100m² of the top parking decks. The drive aisles were laid to a dark grey colour with contrasting colours of light grey for the parking bays and pedestrian walkways in red. The bays designated for Disabled usage were highlighted in blue.



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