

# CASE STUDY

## Spray-applied Deck Waterproofing

# MAKERS

...makes the difference

### PROJECT

Kennet Centre Car Park,  
Newbury

### STRUCTURE

Car Park

### CLIENT

West Berkshire Council

### CONTRACT VALUE

£300,000 circa

### CONTRACT



One of two multi-storey car parks owned by West Berkshire District Council, the car park at the Kennet Centre, Newbury, provides approximately 415 parking spaces across four levels.

Built in the 1980's, this car park structure comprises an in-situ reinforced concrete frame and decks, the two upper parking levels of which were originally waterproofed with a mastic asphalt. The top deck of the car park is split over an upper and lower level with the lower level being above occupied retail premises, so vitally important to keep water out.

The original asphalt surface of the car park had become defective over its life developing a number of splits and cracked blisters which were allowing water ingress. The asphalt surface on the upper level of the top deck had been previously re-waterproofed with a polyurethane-based car park waterproofing membrane in the past however this had also failed. The asphalt on the lower top deck remained from original construction without any past remedial work.

Makers' package of works was to prepare and repair the existing failed asphalt on the two top decks followed by re-waterproofing with a spray-applied car park deck waterproofing system – Stirling Lloyd's Decseal FR – to the entire area.



Before



Before

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## Association Membership



## Accreditations



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Asphalt Prepared



Repairs to Asphalt



Asphalt Primed

The existing polyurethane-based waterproof layer that had been applied over the asphalt of the upper top deck had to be removed in its entirety by planing to ensure that the proposed new deck waterproofing system would achieve a 100% adhesive bond to it. The asphalt surface on the lower top deck was also prepared in the same way to ensure a suitable surface for the new waterproofing.

Typical of ageing asphalt on car parks are splits to original daywork joints, wheel indentations from vehicles and blistering as a result of trapped moisture. With the various defects highlighted following surface preparation, repairs were carried out using Stirling Lloyd's rapid-curing Metaset surface repair and scratchcoat product prior to the application of the overall Decseal surface primer coat.

Once the primer had been applied over the prepared and repaired asphalt surface, two fleece-encapsulating layers of Decseal – a cold, liquid-applied waterproofing system – were applied by spray to incorporate the additional reinforcement needed over the existing substrate. The advantage of spray-application means that the works can be completed with minimal downtime.

A coloured and slip-resistant seal coat of Decseal was then applied to the overall surface highlighting the drive aisles in grey with the parking bays in green. Bay markings, flow arrows and instructions were finally applied to finish.

Makers's package of works also included cleaning down all of the existing copings on top of the parapet walls on the top decks to remove vegetative growth and dirt followed by re-pointing all the mortar joints between the copings.



Base Coat & Fleece



Encapsulating Layer



Coloured Seal Coats

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