

Town Centre MSCP Refurbishment

Culver Street MSCP, Salisbury

SCOPE

- // Concrete Repair
- // Mesh Panel Infills
- // Anti-Carbonation Coatings
- // Movement Joints
- // Brickwork Repairs & Repointing
- // Brickwork & Deck Sealants

DETAILS

- // Town centre car park
- // Split-level structure
2,500m² comprising two separate parking decks of decks re-waterproofed along with entrance and exit ramps
- // Concrete fingers protected with anti-carbonation coatings
- // 700LM of polysulphide movement joints resealed

Case Study // Car Parks

Client | Logic Contract Services
Role | Specialist Sub-Contractor
Mark Lovell Design Engineers

Before: Existing Failed Waterproofing System



After: Fully Protected Decks With Mesh Panel Infills

The scope of this refurbishment was to repair and re-waterproof the top deck and entrance/exit ramps of the split-level MSCP, carrying out concrete repairs and renewing the deck coatings which had come to the end of their serviceable life allowing water ingress into the levels below.

The planters, which surrounded parts of the top deck, were removed due to the maintenance coats and were no longer aesthetically pleasing for the users of this car park. Once the newly exposed concrete could be examined, concrete repairs were conducted as well as to the concrete fingers

Before: Decks & Columns Unprotected



After: Light & Bright Interior Improvements

which showed signs of spalling. Anti-carbonation coatings were applied to the concrete fingers to protect them in the future. New edge protection and mesh panel infills were installed for pedestrians safety, while new crash barriers were fixed on the lower levels 2 and 3.

Following on from these works, the top decks and entrance/exit ramps were prepared by planing and captive shot blasting to remove the existing deck coatings and any contaminants. Sika's partially reinforced RB28 deck waterproofing system was applied to the 2,500m² top deck in contrasting colours of light/dark grey and green

Before: Failed Mechanical Movement Joint



After: Replacement Expansion Joint

which created walkways for the pedestrians to use. Throughout all levels of this MSCP, there was a requirement for the removal and reinstatement of polysulphide movement joints using Sika Pro-3 totalling some 700LM. The entrance and exit ramps were waterproofed using Sika's fully reinforced RB58 decking system following the replacement of a mechanical expansion joint.

The brickwork façade of this multi-storey car park required repairs and repointing with steel cleats being installed onto the brick piers to help strengthen and secure them. There were numerous brickwork joints which had failed and required the removal and reapplication of joint sealants.

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REPAIR // PROTECT // TRANSFORM

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