

Multi-Storey Car Park Refurbishment

Swansgate Shopping Centre, Wellingborough

SCOPE

- // Concrete Repair
- // Corrosion Management (MCI & Anodes)
- // Movement Joints
- // Anti-Carbonation Coatings
- // Deck Waterproofing

DETAILS

- // 936 parking spaces
- // > 150m³ of repair mortar used
- // > 28,000 galvanic anodes installed
- // > 25,000m² of deck waterproofing (over ten split levels)
- // > 30,000m² of protective anti-carbonation coatings to soffits, columns & walls
- // Overall value c. £5m
- // 39-week programme

Case Study // Car Parks

Client | **Morgan Sindall**
Role | **Specialist Sub-Contractor**

Before: Existing Top Decks & Parapets



After: Fully Rejuvenated Decks & Parapets

Prior to being comprehensively refurbished, Swansgate had a progressively worsening condition after many years of lack of maintenance across all 10 levels of this split level MSCP.

Detailed concrete testing including half-cell mapping and chloride content validation culminated in the design and installation of a complex corrosion management solution. In

Before: Damaged Internal Ramps



After: Refurbished Ramps

excess of 150m³ of defective concrete was removed and reinstated incorporating galvanic anodes across all levels prior to re-waterproofing of the parking decks.

The existing failed movement joints were replaced using Radflex's S200 structural movement joint system followed by re-waterproofing of ALL decks using a combination of Sika's RB58 deck waterproofing system (top exposed

Before: Dark & Unwelcoming Parking Environment



After: Light & Bright Interior Improvements

levels) and EB14 system (intermediate levels). All works - INCLUDING out of hours - were phased to ensure minimal disruption for the car park's users that had to remain in use for the entire 39-week programme.

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