

## Shopping Centre MSCP Refurbishment

Thamesgate Shopping Centre, Gravesend

### SCOPE

- // Concrete Repair
- // Crack Resin Injection
- // Drainage Re-lining
- // Movement Joint
- // Brickwork Repairs
- // Redecoration To Metalwork
- // Deck Waterproofing

### DETAILS

- // Shopping centre car park
- // Extensive concrete repairs to all concrete surfaces
- // Soffits, columns & walls protected with anti-carbonation coatings totalling some 11,000m<sup>2</sup>
- // Movement joint replacement spanning the entire top deck
- // 2,500m<sup>2</sup> of deck waterproofing to the top decks, exposed annexes & perimeters of the internal decks

# Case Study // Car Parks //

Client | Workman LLP  
Role | Principal Contractor

**Before:** Dark & Unwelcoming Environment



**After:** Light & Bright Exterior Improvements

**The scope of this refurbishment was to repair and waterproof the uncoated top deck and exposed annexes of the lower levels which were suffering from considerable spalling concrete.**

The internal decks were suffering from ponding issues around the perimeters where driving rain was entering the car park over the parapet walls due to prevailing winds coming from the River Thames. New drainage channels were created to maintain the water run-off and cease the ponding water issues. Selected drainage down pipes had historic leaks and required a waterproof lining to be applied to ensure they were impermeable.

**Before:** Decks & Columns Unprotected



**After:** Fully Protected Decks & Columns

Extensive concrete repairs were carried out throughout the entire 6-story car park to the soffits, columns, parapets and decking; a variety of techniques were used including resin injection. Once all repairs were completed, 11,000m<sup>2</sup> of anti-carbonation coatings were applied to help protect the newly repaired concrete in the future.

The existing movement joint on the top deck had come to the end of its serviceable life and was leaking into the lower levels, this was broken out and a new Radflex movement joint was installed with the surrounding concrete reinstated.

Following these works, the top deck, annexes and perimeters

**Before:** Ponding Water Due To Prevailing Winds



**After:** Perimeters Waterproofed With New Drainage Channels

of the lower levels were prepared to remove any contaminants or imperfections and were levelled off, before using Sika's partially reinforced RB28 deck waterproofing system – which has crack-bridging, traffickable and slip-resistant properties – was applied to ensure that the areas were made watertight.

Also included in our package of works was brickwork repairs, the replacement of the sealant on the deck and parapet joints as well as the redecoration and protection of the metal surfaces.

All works were carried over an 11-week programme with phased possessions to minimise inconvenience to the shopping centre users.

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REPAIR // PROTECT // TRANSFORM

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