

Repairing Sensitive Structures - British Lift Slab

Hunter's Bridge MSCP

SCOPE

- // Concrete Repair
- // Deck Waterproofing
- // Cathodic Protection System

DETAILS

- // > 60m³ of concrete repairs and reinstatement
- // 2,000 LinM of low-cover deck steel repaired using innovative shallow repair techniques
- // 3,700m² of top-deck re-waterproofing
- // 1,640m² of intermediate level repair patches re-waterproofed

Case Study // Car Parks

Client | **Welwyn Hatfield Borough Council**
Role | **Principal Contractor**

Before: Existing Waterproofing > 15 Years Old



After: Re-waterproofed in Contrasting Colours

The scope of this refurbishment was to extend this structure's life by a further 10 years on a limited budget, as the site is subject to a significant future urban regeneration plan.

The top deck waterproofing was beyond serviceable life and had worn through to expose large areas of parent concrete deck. Removal of the existing coatings revealed

Before: Ramps and Turning Circle Worn



After: Bay Sizes Adjusted (Wider)

substantial areas of low-cover steel which required an innovative approach of thin-section resin repair and overbanding to some 2,000 LinM.

The top deck of this car park was re-waterproofed using Sika's fully reinforced RB58 deck waterproofing system to provide optimum wear-ability and crack-bridging performance of the waterproof membrane across a range

During: Removal of Existing Waterproofing



After: Light and Bright Exterior Improvement

of fluctuating temperatures.

Included in our package of works was to complete sections of concrete repairs and localised patch re-waterproofing for ongoing protection against the ingress of de-icing salts and water to the intermediate decks. While also refurbishing the existing impressed Cathodic Protection System to continue protecting the car park's RC soffits.

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