

External Office Refurbishment

Dukes House, Southport

SCOPE

- // Concrete Repair
- // Corrosion Management (MCI & Anodes)
- // Deck Waterproofing
- // Anti-Carbonation Coatings
- // Landscaping
- // New Seating Area

DETAILS

- // Office car park
- // Waterproofing to the concrete slabs and capping beams around the perimeter to the basement car park
- // Concrete repairs and corrosion control
- // Soffits protected with anti-carbonation coatings
- // New Drainage
- // Landscaping

Case Study // Car Parks

Client | Bell Building Projects
Role | Specialist Sub-Contractor

During: Waterproofing Detail To Basement Structure



After: Fully Protected Car Park & External Landscaped Areas

The scope of this project was to waterproof the external concrete slab - where water was penetrating from several areas into the basement of this multi-storey office building.

To expose the concrete slab, the tarmacadam and sub-base had to be excavated along with the seating area slabs. The slab showed various defects which were

During: Removal of Existing Coatings



After: Improved Entrance To The Car Park

repaired before the application of **Sikalastic 8800 podium deck system**. Hot melt pellets were broadcast into the system and a new tarmacadam surfacing was overlaid forming a strong adhesion. The car park layout was redesigned to improve its capacity and usability. Ducting and cables were embedded into the new surface to offer the option to add electric car charging ports at a later date.

During: Seating Area Waterproofed



After: Car Park Reinstated

The outdoor seating area was reinstated over Sikafloor RB58 system was encapsulated underneath the original paving slabs.

The basement soffit suffered serious delamination which required corrosion management measures including the use of Sika's Galvasheild Anodes with exposed concrete elements of the structure protected with Sikagard 550W anti-carbonation coatings.



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