St. Georges Shopping Centre Multi Storey Car Park
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Concrete Repair, Resin Injection & Decoration Works

Project value - £100,000.00

St Georges Shopping Centre is in the busy town centre of Preston, Lancashire.

The contract required us to complete the refurbishment of the multi-storey car park which is part of the shopping centre facility. The car park was to remain open for the full duration of the works so that there was no impact on the public visiting the centre and shops within.

This required in depth planning for undertaking each level so that vehicular and pedestrian movement wasn’t compromised. A mixture of working day and night shift was required by our on-site teams in order to complete works before the high volume of Christmas Shoppers. The demand on completing this work in a 6week timescale was very critical, however, programme delivery was achieved and the works carried out within budget and to the satisfaction of the customer.
Preparation Works –
To adequately clean all dirt, algae, carbon, cob webs and defective material that was present within the car park, we cleaned all surfaces using a 2000 psi Jet washer to provide a sound clean surface for us to work with.

Low level walls – Following the clean process, further preparation was required to removed defective coatings back to a firm edge or bare concrete. Bare surfaces were primed using Johnstones Stabilising Primer followed by 2 full coats of Johnsons Pliolite. All low level walls were coated by brush and roller application.

Perimeter Railings, Barriers & Rainwater Pipework –
Once cleaned, we adequately prepared all railings using appropriate hand tools to a Swedish Standard ST2. All surface scale rust was removed and all edges feathered back so a smooth finish could be achieved. We spot primed bare areas using Johnstone Metal primer followed by a spot coat to build up the surface coating and then 2 full coats of Johnstone Steel & Clad Coating system.

Brackets – Clear sealant was used around certain brackets where they meet the car park deck, this was to stop any stains running down the white coating system.

Chevrons – Were applied in black & yellow in certain locations within the car park to warn vehicles of petruding walls or surfaces.
Protection to the car park deck –
following the initial clean, all floor areas were fully sheeted to protect from any damage from the result of our works. Our customer had recently had an anti-slip resin system installed within the car park which was under warranty for quite a few years and stressed the importance of protection. This was at the forefront in every task our team undertook. To encapsulate the area for the spraying of the ribbed soffits and ceiling areas, this was achieved by using heras fencing, blocks, polythene sheeting and sections of timber which was jammed into the ceiling to provide a curtain wall on all 4 sides so no overspray left the working area into the environment.

Resin Injection –
Numerous cracks had appeared within the car park slabs on each level, whether this being surface cracks or movement cracks they appeared within parking bays, running aisles and ramps. We chased out all cracks totalling approximately 1400 linear metres which was achieved by using hand held power tools. Once these cracks were adequately grinded back we used Fosroc Nitofil LV/ Nitokit Sealant to inject resin and fill all cracks/joints followed by gently brushing the repair afterwards to smooth into the existing slab.

Ribbed Soffits & Ceiling areas –
Following the Resin injection work and any minor concrete repairs the area was ready to receive the specialist coatings. Our team set up large encapsulated areas where they could achieve ample levels of productivity in each working shift which was in line with the programme requirements to spray apply 2 full coats of Johnstones Anti-carbination Masonry paint. The total area sprayed by our team on this project was just short of 10,000m².
Feature Walls to Fire Escapes –
On each level we applied coatings to the block walls to identify the location being a fire escape and also to let the public be aware of what level they are situated on.

Doors & Frames –
Minor timber resin repairs were carried out using DryFlex 4 to frames and also the renewal of a fire door was carried out which then was coated using conventional paint systems such as Johnstones Wood Primer, Undercoat and Gloss Products.

Health and Safety
All construction sites can be very dangerous and it is essential that all staff are correctly trained to perform safely and effectively. All Grade 2 staff are CSCS trained which ensures a safe working environment at all times. Some of our accreditations can be seen below.

For more information on the work that Grade 2 carries out visit www.Grade2.co.uk, our website is full of more case studies and information on the services we provide or Contact us on the following:

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