

Project:

Jordangate MSCP

Location:

Macclesfield, Cheshire, UK

Owner/s:

Cheshire County Council

Applicator/Contractor:

Concrete Repairs Ltd

Designer/Architect/Specifier:

Hill Cannon

Market sector:

Car Parks

Products used:

MasterSeal Traffic
MasterEmaco
MasterEmaco T545

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Jordangate MSCP, Macclesfield

Concrete repairs and deck refurbishment



Our reference in Macclesfield (United Kingdom): Jordangate MSCP

The background

A structural appraisal of this 1980s council-owned multi-storey car park identified chloride penetration within the concrete and recommended cathodic protection treatment to control the corrosion of the structural steel, along with concrete repairs and waterproofing of the car decks and other associated works. Hill Cannon Partnership reviewed the original structural appraisal report, advising that as the effects of chloride penetration had not yet materialised, the use of cathodic protection was not yet essential. Hill Cannon recommended that concrete repairs be undertaken and waterproofing applied to the concrete decks to eliminate water penetration, reducing the risk of chloride attack, to be followed by a regular monitoring regime to ensure that conditions had not deteriorated.

The challenge

For the waterproofing element of the project, achieving the correct deck colour was a potential issue for Jordangate Car Park as the colours needed to match the council's colour scheme.

Corrosion of steel rebar leaching through pre-cast concrete sections was also a concern, and numerous deck repairs needed to be tackled prior to applying the new deck covering.

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Our solution

A £570K schedule was completed with MasterSeal Traffic system from Master Builders Solutions, an approved supplier of contractor Concrete Repairs Ltd. Several Master Builders Solutions products were used to carry out the refurbishment, including a special MasterSeal Traffic strip system.

The block and beam construction of the car par required a solution that could address the cracking along the joints, so a purpose-designed strip system was developed that was then covered with a topcoat. In areas that needed to be especially durable, such as ramps and turning circles, quartz rather than sand was applied. MasterEmaco mortars were first used for patch repairs to the concrete deck.

Benefits to the customer

- New light and airy MSCP created a welcoming space for town residents
- Structural repairs support the overall structure

Projects facts at a glance

- Concrete patch repair works
- Cold-applied deck membrane
- Single-source solution for key construction systems

Master Builders Solutions by MBCC Group

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Further information is available at:
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