

CASE STUDY

External Fabric Repair of an MSCP

MAKERS

...makes the difference

PROJECT

The Grosvenor Shopping Centre Car Park

STRUCTURE

Car Park

CLIENT

HIG Chester Property S.A.R.L

CONTRACT VALUE

£300,000 circa

CONTRACT



The multi storey car park at the Grosvenor Shopping Centre, previously known at the The Mall Grosvenor and The Mall Chester is a vitally important part of the town centre which provides undercover shopping to compliment the wide range of shops in other locations around the city.

Constructed In the late 1970's this reinforced concrete, five storey split level car park with approximately 410 parking spaces had been suffering with a long term lack of maintenance. It had reached a point where a number of defects had appeared and required some structural evaluation and repairs to the structure were required.

Having completed waterproofing repairs earlier to the top deck of the multi storey, Makers were called in to carry out the external fabric repairs to the multi-storey car park.



Before



Before

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After a full report to the defects to the external panels. Makers were appointed to undertake the repairs and apply corrosion inhibitors to protect the insitu structural elements. Repairs were to three number of elevations and to external stair cores which had become worn over the years.

Works were carried out by scaffolding and the use of cradles, the aggregate panels were high pressured washed along with the inside edge beam to remove previous latents of MCI in preparation for the application of the migration corrosion inhibitors. Water repellent Sikagard 700s Aquastop was applied to the brickwork making it water tight to withstand heavy winters.

Concrete repairs were carried out to the External Elevations, panels, beam and columns and Sika Ferrogard 903 migration corrosion inhibitors was applied to all exposed concrete surfaces. Application of Sikagard 550w was then applied and finished in a stipple effect to recreate the original aggregate panel profile.

The external stairways have also been transformed through the application of a new coloured fast curing finish to the staircases with additional safety feature of non-slip nosings to all steps with newly painted panels and handrails, improving the whole customer parking experience.



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