

CASE STUDY

Concrete Repairs

MAKERS

...makes the difference

PROJECT

Hugh Baird College

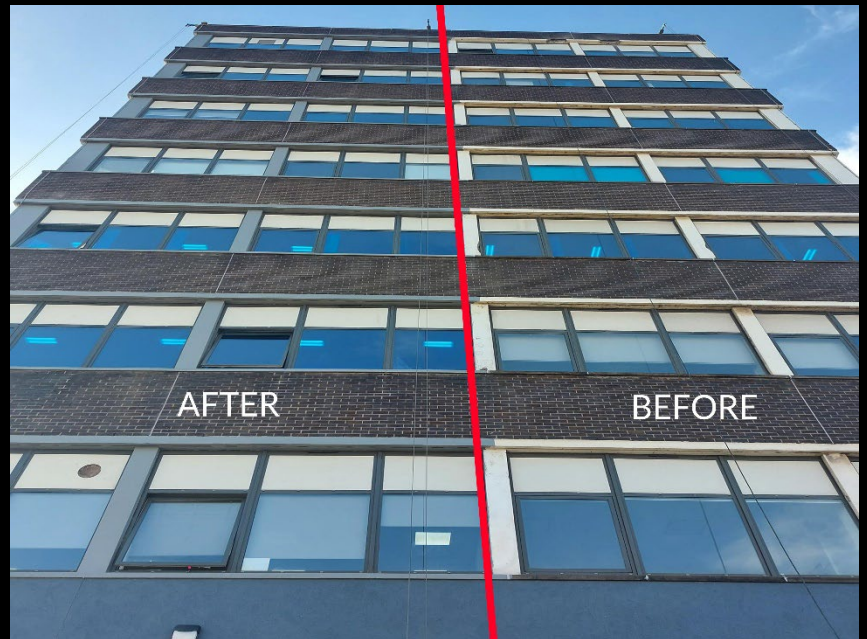
STRUCTURE

Masonry and Concrete

CLIENT

Hugh Baird College

CONTRACT



Hugh Baird College opened in 1974, with the council deciding to name it after Councillor Hugh Baird due to his commitment to scholarship in the region. Hugh Baird had been a member of Bootle Council for 30 years and at the time of opening, was the leader of Bootle Council and the chairman of the Transport Committee on the newly established Merseyside County Council.

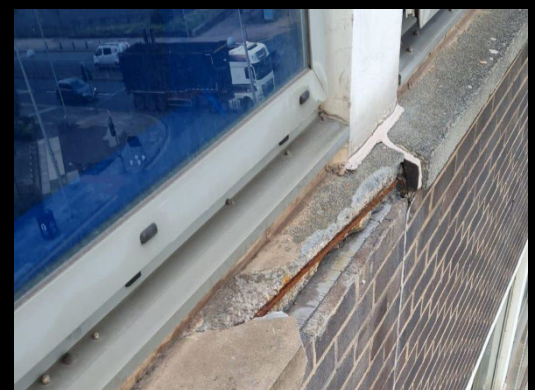
Hugh Baird College is a college and University Centre situated in Merseyside, England. It is one of the largest providers of education and training in the area, delivering over 300 courses to more than 5,000 students. The college offers courses from entry Level to Level 3, T-levels, A-levels, apprenticeships and university-level courses, foundation degrees and degrees.

The 49 year old 1970's building was deteriorating, being close to the River Mersey with salt air it's coatings and joints were failing and corrosion was setting in affecting the re-bar in the concrete, causing it to spall creating a hazard.

Makers were contacted by the client and we initially recommended a make safe survey including testing, which included a Carbonation-Chlorides test. This provided Makers with a full schedule of repairs and insight into the specification requirements to provide the best results.



Before



Before

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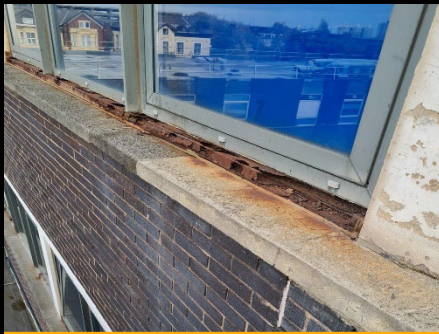
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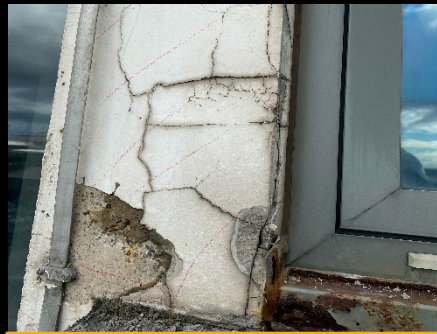
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Before



Before



Before

Carbonation Chloride test results showed that the chloride content was high and to prevent further corrosion of the rebars, sacrificial anodes of XP4 were specified in areas identified.

The west side elevation facing the Mersey River had corroded window aprons, allowing driving rain in to penetrate the walls exacerbating the corrosion of the rebars in the window sills.

Cradles were used to undertake the works and allowed us to minimise the amount of disruption to the college and students. All repair areas were identified and broken out to specification with XP4 anodes to areas of high chloride content and an application of Sika 615 lightweight repair mortar. Sika FerroGard was applied to all exposed concrete surfaces and Margel capsules to areas of unremoved coatings.

The corroded aluminium window aprons were broken out and new aluminium aprons were manufactured to bespoke design fit and colour matched to the existing window frames.

The existing failed jointing and sealants around the windows was removed and replaced with Sika Flex Pro 3 sealant in conjunction with Sika Primer N providing the building with 20 years leak free joints.

Once repairs were completed Sika Elastofil was applied to give a blemish free finish for the application of the Sika 552W Aqua Primer and then finished off with two coats of SikaGard 550W Anti-Carbonation Coating.

The client was extremely happy with all works undertaken and has since received many complimentary comments on how smart and great this nearly 50-year-old building now looks.



After



After



After

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