



Alexandra Square Underpass, Lancaster

Case Study

Lancaster University were preparing for the rejuvenation of their Alexandra Square Underpass, which is a reinforced concrete bridging structure that also supports a 3 storey, educational building and an open courtyard.

Concrete spalling from the soffit over the roadway through the underpass was evident due to carbonation and chloride induced reinforcing steel corrosion. The Engineers required the exact extent of this damage to be determined as part of the repair works as this made considerable savings in access cost and time.

After competitive tendering all of the works were carried out as a complete package by JDF Restoration, including the Condition Survey to determine the precise nature and extent of the damage; production of a Detailed Specification with the most appropriate repair materials; Bills of Quantities, and then installation and application of the concrete repair products and systems. The solutions included installation of Cathodic Protection using a sacrificial anode system, followed by a pre-batched, quality controlled, sprayed concrete overlay.

NCC supported JDF throughout the project, particularly in determining the right repair and protection solutions and then providing the Renderoc Concrete Repair materials that enabled all of the works to be completed successfully, on time and on budget.

Client:

Lancaster University

Specialist Contractor:

JDF Restoration Limited

Products Used:

Fosroc Limited

Contact:

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