



Case Study

Hill Croft College nursery



Cemplas Waterproofing and Concrete Repairs Ltd were called in by Russell Cawberry to inspect the Powell Building at Hill Croft College, which is used as a nursery.

The first stage when undertaking any Concrete Repair is for Cemplas trained operatives to assess the damage, deterioration and provide a diagnosis of the cause.

A proper assessment will include analysis of the current condition of the structure, including both visible and latent deterioration. An understanding and consideration of the client's objectives, with regard to financial constraints and the future requirements of the structure, is as important, at this stage as the extent of the structure's problems as the results can affect the client's considerations regarding the most cost-effective repair solution.

Concrete Repair is not a standard process as the quantity of work required and the nature of that work may vary greatly. Cemplas consider all aspects of the work including progressive investigation and testing, surface cleaning, preparatory work, and the precise nature and

sequence of the repair operation together with the repair methods and materials, and any additional aspects such as weather precautions, material thicknesses and consumption, and curing procedures.

Following a survey by Cemplas it was found the building was showing signs of spalled and cracked concrete with visible corroded steel reinforcement, and a quotation and proposal was submitted to repair the concrete and apply a specialist coating to the concrete elements of the structure using Weber repair systems.

Cemplas set up site and brought in cherry pickers to provide access to the areas.



The defective areas of concrete were broken out back to sound substrates and all steel reinforcement was cleaned and treated with Weber Keycoat rust inhibiting primer. All areas of substrate concrete were primed with Weber Keycoat bonding slurry prior to the application of the repair mortars. Defective concrete was reinstated using Weber HB lightweight repair mortars, followed by the application of two coats of Weber cote smooth anti-carbonation coating.

For expert advice, or if you wish to view our previous case studies, please visit our web site **www.cemplas.co.uk**

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