

Montpelier School, Plymouth

Concrete Repairs, Crack Stitching & Lead Flashing

Project: Montpelier School, Plymouth

Client: Montpelier School

Concrete Repairs, crack stitching, lead flashing

Main Contractor: King Welsh

Date: August 2022



The Problem

There were five sets of defects to the school identified: defective concrete, failed expansion joints, cracks to brickwork, lack of lead flashing above lintels and the capping to the chimney including several courses of brickwork brickwork was de-bonded.



The Solution—Concrete Repairs

Each area requiring concrete repair had all defective concrete removed and the reinforcing steel cleaned and treated before shuttering and repairing. SWCR also cleaned primed and painted with anti-carbonation paint for prolonged life.

Lead Works

Initially new joints were formed and then lengths of lead were then beaten into shape using a custom timber made profiler and a beater. The lead was then lifted into place dressed over and down the face and sealed

Restoring Chimney Stack.

The capping and courses of unbonded brick were removed. A new fresh course of bricks were bedded onto an existing sound course and a new asphalt covering mounted over the top.

Joint Renewal

The failed joints were removed, and the substrate cleaned, before inserting new backing foam and priming. A sealant was then applied to the joint and tooled off.

Crack Stitching

Cracks to the brickwork were ground out and cleaned before applying a resin based gunning mortar into the joint and bedding in a helical tie to increase the lateral strength of the brickwork



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