



**Scope:** Full Depth (255mm) bay replacements in PQ-X concrete.

### Details:

GCEL were appointed to carry out 1310m<sup>2</sup> of full depth concrete repair on both carriageways of the M42 between junctions 3A - 4. The scope of work included removal of existing dowelled concrete bays and reinstating using PQX (Rapid Strength Gain Concrete) overnight. The concrete bays (4m x 5m x 255mm) were saw cut into smaller section and lifted out using vacuum lifting device attached to wheeled excavator. Repairs were carried out to lean mix, new dowel bars were drilled and installed using EZ 210B SRA drill prior to reinstating using PQX concrete mixed on site, using Volumetric mixer. To accelerate curing of concrete, heated blankets were used. Between 3-4no. concrete bays were repaired each night between working hours 21:00 to 05:00 (next morning). The carriageways were successfully open to normal traffic at 06:00AM every morning during project duration.

**Similar Projects:** M54 (Junction 3 to 5).  
A419 and A417.

### M42

Junction 3A to 4  
(North and South  
Carriageway)

**Client:**  
Costain LTD & AMEY

**Duration:**  
23/11/2013 - 21/01/2014

**Supplier:**  
AJ Wilcock Holeformers  
Titan Plant Hire LTD

