

## M1, Deansbrook Viaduct, Scratchwood, Structural Repairs of Fire damage.



Damage caused by Fire



Hydro-Demolition of damaged concrete



Repair of temporary prop locations following extensive spray concrete replacement and after shot of completed repairs



Balvac was appointed in early August 2011, following a competitive tendering process, to provide Early Contractor Involvement (ECI) input towards the structural repair of the Deansbrook Viaduct on the M1 Motorway.

Balvac worked with the scheme designers (Atkins Global) to provide valuable construction orientated advice and input towards delivering a repair solution for the structure.

A range of repair materials were considered, and a construction sequence which integrated with the necessary traffic management scheme was developed which managed to deliver the repair works within the tight programme period. The repair materials comprised a dry spray concrete repair material and a rapid cure epoxy repair material for the areas immediately above the temporary propping locations.

A total of 75 cubic metres of sprayed concrete was reinstated to the structure, with 35m<sup>3</sup> applied to the pre-cast beams and 40m<sup>3</sup> applied to the south abutment wall. Over 1 m<sup>3</sup> of epoxy repair mortar was also utilised to repair above the temporary prop heads.

**Clients:** **Connect plus/  
Highways Agency**

**ECI Phase:** **August – Sept. 2011**

**Construction Phase:** **Sept. – Nov. 2011**

**Value:** **£415K**

## Balvac

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