



<b>Project Title:</b>	Queensbury Tunnel
<b>Client:</b>	Highways England
<b>Date of Work:</b>	Jul 2011

Project description

2no 4m wide bans of sprayed concrete were installed either side of the collapsed area of brickwork, 1200m into the tunnel from the north portal.

The sprayed concrete was 100mm thick and was made up of the following:

- 80mm thick layer of Reader Grout Spraycrete 40A/MF (Stainless Steel Fibres).
- 20mm thick layer of Reader Grout Spraycrete 40A.

Dowel bars were installed across the areas where soot could not be cleaned-off. The dowel bars were 200mm x 200mm x 8mm L-Bars and were fixed into the brickwork lining to a depth of 120mm with a 2 part Epoxy Resin (SSR-CM1-380).

Project Constraints

- Ecology.
- Public Interface.
- Poor condition of structure.
- 3<sup>rd</sup> party negotiations (landowners).
- High Level access.
- Plant and Materials delivery logistics.
- Site Security.
- Confined Space Working.