

# Project Profile



**Project:** M275 Tipner Interchange Bridges, Portsmouth, Hampshire

**Client:** Portsmouth City Council



Tipner Interchange Bridges are part of the main gateway to the city of Portsmouth, supporting the M275 motorway. The interchange was designed to accommodate a grade separated junction between the M275 & Tipner, an area that is earmarked to undergo major redevelopment to form the 'key gateway' to Portsmouth.

Principal Bridge Inspections highlighted leaking deck joints & patch defects in the supporting structures. Concrete testing confirmed the presence of high chloride ion concentrations.

The project team, headed by Portsmouth City Council, was formed with **APA Concrete Repairs Ltd** chosen as one of the preferred partners & a member of the Design Team for the Early Contractor Involvement (E.C.I.) phase of the Project. The team formed a repair & protect scheme to maintain the life of the bridges, avoiding the more costly option of demolition & rebuild.

A 'mesh & overlay' Impressed Current Cathodic Protection system was chosen by the team, installed by **APA**. Titanium mesh anode was fixed to the structure & overlaid with a 30mm thick layer of dry-sprayed concrete. The works were successfully completed with the CP System being commissioned and working well to protect the supporting structures from corrosion.



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