

Case Study

Milford Bridge



The road bridge carries the A6 over the river Derwent in Milford, Derbyshire. It is comprised of a two-span masonry arch bridge which has been extended at either side by reinforced concrete cantilevers/slabs to provide a pedestrian Footpath (1980's).

Location
Derby, UK

Client
Derby County Council

Completed
June 2013

Structure
Milford Bridge



The Problem Identified

Poor drainage through the installed system and leakage at the joint between the new and old bridge had lead to chloride ingress from the road above which had then led to significant damage on the cantilever sections and the deck soffit.



The Solution Developed

Following the removal of damaged concrete, 300 PatchGuard anodes were applied to the cantilever sections and drain outlets of the new bridge, after which the repairs were reinstated using repair mortar.

150 Patchguard Plus Connect™ anodes were installed in the soffit of deck slab along the junction of the new and old bridge to protect against the risk of future corrosion.



The Benefits Provided

The installation of PatchGuard™ is a cost-effective solution allowing targeted application and no long term maintenance. It is also installed rapidly with no power source required.



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CPT Products Used



PatchGuard™



PatchGuard Plus Connect™



DuoCrete PG Mortar



ISO 9001
Cert No. 10159