

Milford Bridge

Derby, UK



Country: United Kingdom

Timescale: May—June 2013

Structure: Milford Bridge

Client: Derby County Council

CPT Treatment used:

PatchGuard™ Galvanic Anode System

PatchGuard Connect™ Galvanic

Anode™ System



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).

Problem

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

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.

Benefits

The instillation 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.



CPT Products Used:

- ◆ PatchGuard™
- ◆ PatchGuard Plus Connect™
- ◆ DuoCrete PG Mortar

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