

Woodhouse Close Leisure Complex

Durham, UK



Country: United Kingdom
Timescale: April– June 2014
Structure: Swimming pool
Client: Durham County Council
CPT Treatment used:
DuoGuard™ Galvanic Anode System



Woodhouse Close Leisure complex is located in Durham. In 2013 CPT carried out an assessment of the swimming pool walls and walkway soffits of the two swimming pools located in the complex. The results were showing signs of spalling and delamination.

Problem

The testing, which included carbonation depth analysis, chloride profiling and half-cell potential surveys showed that the pool walls and walkway soffits were suffering from a combination of chloride and carbonation induced corrosion.

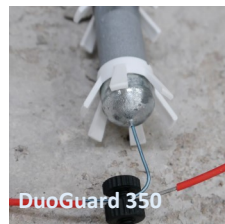
Solution Developed

Based on the results of the testing, CPT provided a bespoke design solution in 2014 which treated areas at the highest risk of further corrosion damage. A DuoGuard Hybrid anode system was designed to halt ongoing corrosion and prevent future damage. This involved the installation of over 1650 anodes divided into 40 individual anode zones spread across the pool undercroft.

Benefits

All of these zones can be re-accessed and powered should conditions change in the future.

The discrete nature of the anodes meant that concrete obscured by complex pipework could still be protected by the anode system. The two pools remained open throughout the works.



CPT Products Used:

- ◆ DuoGuard™ 350
- ◆ DuoCrete SD Mortar

Number of Anodes used:

1650

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