



Hockery Brooke - Mine Water Scheme, Near Wigan

Client:

The Coal Authority

Main Contractor:

A E Yates

Products Used:

Sikaflex PRO-3WF

Contact:

NCC Resin Flooring

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Case Study

The Coal Authority and their civil engineering contractor A E Yates Ltd were constructing a new dam and associated structures, to direct contaminated water that is pumped from old mine workings into and through a water treatment plant. Water is pumped from the former mine workings, down a cascade and into two holding lagoons. Here, the iron settles and more as well as any other impurities, are filtered out further through a series of wetland reed beds, which are used to form a natural filtration and water purification system, before the clean water can be allowed to discharge back into the natural environment

An important requirement of the project was to securely seal the movement joints in the floors and across all horizontal surfaces of the new reinforced concrete structures, which is to help ensure that no contaminated water could leak into the environment.

A. E. Yates discussed these stringent requirements with NCC Materials Consultants, who advised the use of Sikaflex PRO 3WF, a watertight and chemically resistant joint sealant based on advanced polyurethane resin, which is specially formulated for ease of application into horizontal movement joints. This one-part PU sealant has now been used to efficiently and effectively, seal all the floor and horizontal movement joints in the new structures, thereby helping to protect the groundwater in accordance with the environmental policy of the Coal Authority.

