



Hockery Brooke - Mine Water Scheme, Lancashire

Case Study

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

An important requirement of the construction works on this project was to securely seal the movement joints in the floors and across all horizontal surfaces of the new reinforced concrete structures, to help ensure that the contaminated water could not leak into the environment.

NCC Materials Consultants were asked for advice and recommended the use of Sikaflex PRO 3WF, a watertight and chemically resistant joint sealant based on advanced polyurethane (PU) resin, which is specially formulated for ease of application and finishing to seal horizontal movement joints. This one-part sealant has now been used to efficiently and effectively, seal all the floor and horizontal movement joints in the water retaining structures, thereby helping to protect the groundwater in accordance with the environmental policy of the Coal Authority.



Client:
The Coal Authority

Main Contractor:
A E Yates

Main Products Used:
Sikaflex PRO-3WF

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