



Epoxy Putty Case Study

Cracked Wall Between River and Trout Farm Repair

The Environment Agency repair a crack in an underwater wall between a river and a trout farm which was causing issues with the monitoring of water levels



The crack ran for 700mm, starting above the waterline and progressing down to the riverbed



AB Original was pushed into the crack, sealing along its entire length above and below the waterline

Defect

The Environment Agency permits trout farms to draw limited water from rivers. A sluice controls extraction and levels are monitored by the EA.

Anomalies with data from one farm alerted the EA to an issue. An inspection revealed a 700mm long crack in a wall next to a sluice.

The crack needed sealing to prevent water loss from river to farm, and ensure accurate recording of how much water was being drawn.

Solution

With most of the crack below the waterline, the EA required a material capable of underwater repair. They used **Sylmasta AB Original Epoxy Putty**.

The putty was mixed in dry conditions. Whilst soft, it was pushed into the crack. The repair started above the waterline, working down to the riverbed.

High-strength adhesion was achieved between AB Original and the wall. Once cured, the putty formed a rock-hard material to permanently fill the crack.

Monitoring of water levels after the repair showed a small leak remained. This was identified as being at the crack's widest point near the riverbed. It was sealed with further AB Original on a second visit.

Result

Extraction from the river to the farm returned to normal levels following the second visit, indicating that the crack had been successfully sealed.

The EA were pleased to have found a versatile material for making underwater repairs. They have since begun using AB Original in other applications.