

Encapsulation of Viking Pipe Clamps on 800mm Dia. Waste Water Pipe

ID: 9793

Industry: Water / Wastewater
Application: VPF-Valves, Pipes and Fittings
Substrate: Carbon steel
Products: Belzona 4111 (Magma-Quartz)

Customer Location: County Durham
Application Date: March 2025

Problem

Customer has an 800mm Dia. waste pipe which crossed a small river. Viking Clamps had been fitted to seal a number of through hole defects on the Waste Water Pipe.



View of clamps



Steel frame placed into position 50% poured



Finished application

Application Situation

The clamps were leaking which imposed environmental issues, but customer was reluctant to remove and replace the clamps due to:

- 1) The corrosion on the underside of the pipe.
- 2) The environmental issues and the consequences of polluting the river.

It was agreed that total encapsulation of the clamps using Belzona materials was the solution to the problem.

Application Method

Steel shuttering was fabricated and fixed into place around the Viking Clamps.

The Belzona 4111 was mixed as a pourable slurry and poured into the steel shuttering until the level was 50mm above the top of the clamps.

Belzona Facts

The Belzona repair solution/method was chosen by the customer due to:

- 1) The solution offered a very cost effective solution whilst also offering longer life expectancy and minimum of downtime.
- 2) Fast turnaround offering faster return to service.

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3) Cost was significantly less than total replacement.

4) Minimum impact and risk to the environment

The alternative was to completely replace pipe which would have been a large civil engineering job at a significantly much higher cost to the customer

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