

SYLWRAP Case Study



Extending the Lifespan of 20m Pipe Bridges

Two 20m pipe bridges due for future replacement required immediate repair of corroded joints leaking sewage into a stream. For maximum benefit from investment, the bridges' lifespan had to be extended as part of the repair.



One of the 20m pipe bridges requiring repair



Yellow tape shows a previously failed repair attempt



Pipe bridge wrapped along 20m length with SylWrap



Completed repair, seen from underneath pipe bridge and from the scaffold constructed for application

Defect

The 1.5m x 20m and 1.8m x 20m gravity-fed pipe bridges were constructed of steel riveted plates which had become corroded. These were leaking sewage water into a stream from numerous points.

Both bridges were due for future replacement. The situation though required an immediate leak repair. To justify the complexity of a repair - including building scaffolds on the riverbed - the company responsible for the bridges wanted their lifespan extended for maximum benefit of investment.

Solution

Multiple **Wrap & Seal Pipe Burst Tapes** were applied around the numerous leak points, where the self-amalgamating silicone tape provided a tight rubber seal.

Once all leaks had been addressed, the bridges were wrapped with **SylWrap HD Pipe Repair Bandage**. Four layers of SYL1266HD (300mm x 20m) were applied along the 20m length, providing a rock-hard, impact resistant layer of protection to guard against future leaks and corrosion.

Result

Although the company responsible for the bridges initially only wanted a temporary solution until the planned replacements, the repair provided additional strength which will last for up to 20 years.

It was estimated afterwards that a saving of approximately £250,000 had been made compared with the quoted cost of replacing both bridges.

