

SYLWRAP Case Study

Quarry Wash Plant Leaking Elbow Repair

A leak close to a 90 degree bend in a 150mm steel pipe at a UK quarry forced the site to seek an alternative repair method to their normal use of a clamp



The 150mm steel pipe was leaking from a pinhole close to a 90 degree elbow bend, meaning the quarry could not seal it using their normal method of a pipe repair clamp

Defect

The pipe was located in the quarry wash plant, where it passed over a lake. A pinhole leak developed around 50mm from the elbow bend, allowing foul water to escape into the lake before.

Normally, the quarry would use pipe repair clamps for fixing leaks. But with the hole so close to the bend, a clamp could not be fitted to this section of the pipe.

The quarry needed a more versatile solution than a clamp capable of effective application near the elbow bend.

Solution

Once the quarry established the pipe could be isolated, they ordered a **SylWrap Standard Pipe Repair Kit** for no pressure repairs.

The pipe was cleaned before repair. **Superfast Steel Epoxy Putty** was kneaded by hand and pushed into the pinhole whilst soft.

It hardened within 10 minutes to seal the leak. A **SylWrap HD Pipe Repair Bandage** was then applied for added strength and reinforcement.

The resin was activated with water and the bandage wrapped and smoothed around the pipe, curing to form an impact resistant sleeve protecting the repair.

Result

It took a member of the quarry operations team less than 30 minutes to complete the repair, simply by following the instructions provided with the Kit.



Superfast Steel was used to plug the pinhole. The repair was then reinforced with SylWrap HD, which provided it with a rock-hard, impact resistant protective sleeve

The quarry have since taken a supply of SylWrap Kits to keep on site as their preferred method for sealing leaks rather than heavy, bulky pipe repair clamps.