SYLWRAP Case Study

WRAS APPROVED PRODUCT

Repair & Reconnection of an Iron Water Supply Pipe

Contractors removed a ruptured section of cast iron pipe from a water supply line serving a block of flats, only to discover no new fittings were available. A rapid repair and reconnection method was required to restore water supply

Supply line after the damaged section was cut away

Rupture in the pipe caused by several holes

Holes in the pipe sealed with Superfast Steel

Wrap & Seal increased the pressure resistance

SylWrap HD covered the repair and Wrap & Seal reconnected the cut-out section to the pipe

Second SylWrap HD Bandage encompassed entire pipe, painted black to appear uniform

Defect
Corrosion had caused the 100-year-old 70mm pipe to rupture. The contractor initially removed the damaged section with the intention of replacing it, only to discover fittings of the size and type needed were no longer manufactured due to the pipe's age.

With the flats now cut off from the public water network, the rupture needed to be repaired rapidly and the removed section reconnected. Any repair needed to be pressure resistant up to 20bar.

Solution
Superfast Steel Epoxy Putty sealed the rupture. The putty was overwrapped with **Wrap & Seal Pipe Burst Tape** to increase pressure resistance. A **SylWrap HD Pipe Repair Bandage** provided a protective shell over the initial repair.

To reconnect the cut-out section to the supply line, Wrap & Seal was applied at the joints. The full length of pipe was encompassed with further SylWrap HD to reinforce the connections and protect the entire repair. This final layer was painted black to make it uniform with the pipe.

Result
Within two hours, the damaged section of pipe was repaired and reconnected with supply restored to the flats.

The contractor estimated that the total cost of a replacement involving specially fabricated new parts would have been £12,000. They instead had repaired the pipe for less than £300 with the products supplied in the **SylWrap Pipe Repair Contractor Case.**