

# SYLWRAP Case Study

## Cast Iron Soil Pipe Leaking Above Hospital Ward

A 2-metre long horizontal crack in a 150mm cast iron soil pipe is sealed within 30 minutes of wastewater beginning to drip through a roof into a hospital ward



Wastewater was leaking through a 2-metre horizontal crack in the cast iron pipe, located above a ward



CrackSeal was extruded directly into the crack, hardening inside almost instantly to seal the leak



Two SYL633HD SylWrap Bandages were used to reinforce the CrackSeal repair



SylWrap provided a rock-hard, impact resistant sleeve across the entire section of cast iron pipe

### Defect

The cast iron soil pipe was located above a ward in a confined roof space. It was surrounded by other pipework, ducting and electrical cables.

Water starting to drip from the ceiling into the ward alerted the hospital to a problem.

The maintenance team accessed the roof space and found a 2-metre long horizontal crack in the cast iron pipe through which wastewater was leaking.

### Solution

A SylWrap Drain & Waste Pipe Repair Kit was kept on-site for precisely this type of emergency. The Kit contains everything needed to make multiple repairs to pipework across the hospital.

The maintenance team retrieved the Kit and used **CrackSeal Cast Iron Pipe Sealant** to seal the leak.

CrackSeal was extruded directly into the crack, where it hardened almost instantly - despite the wet surface and wastewater continuing to leak through.

Two SYL633HD **SylWrap HD Pipe Repair Bandage** were then wrapped along the entire repair area, reinforcing the pipe with a rock-hard outer shell.

### Result

The repair was made at a time when UK hospitals were under scrutiny after a report revealed there had been over 456 sewage leaks into maternity units, A&E departments and wards over the previous 12 months.

In contrast to those prolonged and damaging leaks, the presence of a Drain & Waste Pipe Repair Kit meant this soil pipe was permanently sealed within 30 minutes of the crack being discovered.