

# SYLWRAP Case Study

## Rainwater Stack Corroded Pipe Joint Sealing

Pipe joints in a 250-metre-long internal cast iron rainwater stack are sealed, avoiding a total system replacement during the refurbishment of an office block



*Corrosion had left the pipe ends uneven, making it impossible to create watertight joints using clamps*



*AB Original was forced between repair clamps and the uneven pipe surface, sealing any gaps*



*120kg of AB Original was used to seal 300 joints in the rainwater stack before it was blocked back off*

### Defect

During the refurbishment of the office block, 30-year old rubber seals joining sections of the rainwater stack together were discovered to have failed.

When the seals were removed, the pipe ends beneath had been left uneven, pitted and breached by corrosion. This made achieving a watertight seal when the pipe was rejoined with repair clamps impossible.

The only option appeared a full system replacement at considerable cost and delay to the refurbishment.

### Solution

Sylmasta were called to the office block to see if a repair method could be formulated. It was decided to use **Sylmasta AB Original Epoxy Putty Stick** to seal the newly installed repair clamps against the pipe.

Enough putty was cut from a 200g stick and kneaded by hand. Whilst soft, it was forced into both ends of the clamp, filling all gaps between it and the uneven pipe surface.

Once hardened, AB Original permanently sealed any leak paths. The repair was so effective that the company carrying out the refurbishment decided to use it to seal all 300 joints across the entire stack.

### Result

120kg of AB Original was used for the repair. The two-hour work time allowed the engineers to thoroughly seal every joint at a reasonable pace without fear the putty would set before being properly applied.

Repairing the joints instead of installing an entire new rainwater stack helped keep the refurbishment of the office block to schedule.