

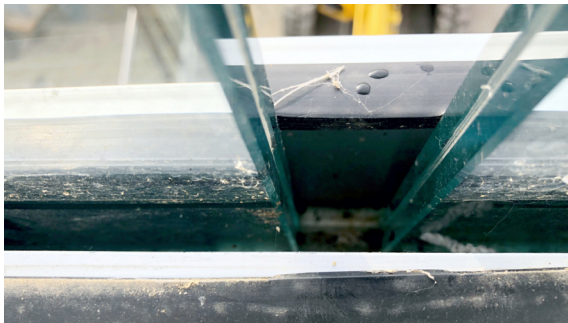
Liquid Rubber Case Study

Flexible Expansion Joint Filler for a UK Home

An unexpected issue hit a dream home being built in Essex as water began to drip through expansion gaps in a roof terrace onto a balcony below - leading the homeowner to seek a waterproof, flexible filler material



The expansion joints were located between the glass panels on the roof terrace with water dripping through and onto the balcony below



The 25mm expansion gap between the panels



Liquid Rubber poured into the gap as a filler



The completed repair sealed the gaps to prevent damage occurring to the electrical equipment below

Defect

The roof terrace overlooked the Thames Estuary. There were 26 glass panels with 25mm expansion gaps either side.

Whenever it rained or spray blew off the Thames, water would pass through these gaps and onto a balcony below where electrical installations such as LED lights and speakers had been added.

A material which was both waterproof and flexible enough to allow the glass to expand was needed to fill the gaps and prevent damage to the electrics.

Solution

The homeowner hit upon a creative solution involving a packing material and **Liquid Rubber 80**. He began by filling the gaps with the packing material before encapsulating it with Liquid Rubber, a tough and flexible rubber elastomer compound.

Liquid Rubber is easy to use; the homeowner had to simply mix the two parts together and pour into the expansion joints. With 16 hours, it had cured to provide a watertight filler.

Result

Liquid Rubber cures black, which meant it blended seamlessly with the existing resin used on the roof terrace. Even on close inspection, it was impossible to tell two different materials had been used.

The homeowner was delighted that a solution had been found to overcome the final complication with building his dream home.