



## **CASE STUDY – Cavity Wall Insulation for Flood Resilience at Bank**

**BUFCA SUPPLIER:** Isothane Ltd  
**BUFCA INSTALLER:** A & R Hepburn (Engineering) Ltd

### **THE SITUATION**

The Bank of Ireland is situated next to an industrial estate where the road in to the estate is one and a half metres above the ground level of the bank. During the winter snow storms, the snow drifted against the side wall of the bank, and this was added to as more piles of snow from the roads being cleared were put against the side wall.

As the snow melted, the melt waters soaked through the outer brick leaf of the side wall and into the cavity. This was exacerbated by the wind driven rain against the wall and resulted in the cavity flooding and the water soaking through the inner leaf of the cavity, causing severe dampness on the inner walls of the bank. The job requirement was to dry out the walls and find a flood resilient material which would also insulate the cavity to a high standard. There was also concern that the flooded cavity might have structurally weakened the wall.

### **SOLUTION**

To dry out the walls, some outer leaf bricks were removed from the side wall and rubble in the cavity was cleaned out to a depth of 300mm and the bricks were replaced. Technitherm was then installed into the cavity to form a flood resilient cavity wall insulation barrier. This closed cell insulation material has been independently tested to prove its flood resilience, so was able to prevent further ingress of water and solve any structural problems caused by the flood waters.

The walls of the Bank are now flood resilient, removing any further danger of dampness on the inner walls. Technitherm has also provided insulation values which match Building Regulations and eliminated any structural problems caused by flooding.