

The Client: Watford Borough Council

The Problem:

Block of tenanted flats in need of desperate building maintenance work.

Mr Ellis, of David Ellis Associates (Consulting and Structural Engineers) stated that:

“The condition of these properties was structurally poor with the brickwork and mortar joints being so weak that it rules out conventional mechanical fixings”.



The Solution:

A series of 12mm holes were drilled through the mortar joints in the external brickwork. Technitherm® (conforming to BS 7457:1994 & BBA Cert No. 97/3426) structural grade polyurethane foam was then injected into the wall cavities. The mortar joints were then re-pointed to complete the process.

The Outcome:

Mr Ellis, of David Ellis Associates concluded that:

“With the aid of this modern polyurethane structural foam (Technitherm®) we were able to provide a continuous bond between the inner and outer leaves, all with minimum disturbance to the tenants”.

Insulation was increased to Building Regulation standards, reducing energy costs and thus the Carbon Footprint of the building.