

# Case Study Kettering

## Property Type – Cornish Properties

The client wished to improve the thermal efficiency of its Cornish property stock and asked for advice and support in putting together a specification for an Envirowall external wall system. Cornish properties consist of reinforced concrete columns with un-reinforced concrete panels slotted between them. They are known to suffer from cracking within the concrete panels caused through carbonation, this occurs when water penetrates the concrete structure. The system chosen for Kettering was the EnviroBrick system, this is two coat render system that produces a traditional brick effect finish, which the client felt would better suit the surrounding architecture. The EnviroBrick system incorporated a 70mm phenolic insulation board which improved the existing u-value of 2.15W/m<sup>2</sup>k to 0.27W/m<sup>2</sup>k which in turn helps reduce energy cost and carbon emissions. The system also weatherproofs the structure eliminating the risk of any further carbonation.



Before



After