



JOHN NEWTON
& COMPANY LIMITED (EST. 1848)

Technical Enquiries
enquiries@newton-membranes.co.uk

Sales - Head Office
T. 020 7237 1217
F. 020 7252 2769

info@newton-membranes.co.uk

John Newton & Company Ltd
12 Verney Road, London SE16 3DH



Case Study

TWO LISTED COTSWOLD PROPERTIES, OXFORD

FLOOD MITIGATION PROJECT - SOUTH HINKSEY

Waterproofing Project: Two Listed Cotswold Properties and one Brick Structure now protected from flood risk internally using the Newton System 500 and drainage system.

History

Heavy flooding conditions devastated the village of South Hinksey in Oxford in July 2007. With the majority of houses underwater, a robust waterproofing/flood defence system needed to be installed to prevent such instances of flooding once more causing havoc to the properties. Once the insurance company had assessed the situation and given recommendations three out of the four properties in a row elected to install ground water management systems.

Methodology

Newton Specialist Basement Contractor - Stonehouse Property Care were commissioned to design and install a robust and reliable water management system. The Two Cotswold cottages were the first to be protected. Prior to the installation of the membrane system a tight render coat was applied to the substrate as in its current form it provided no primary resistance to water ingress. Once this had been achieved, the Newton System 500 was install up to 1m high to replace the blown render removed after the flooding. In addition the Basedrain conduit was installed within a rebate at the wall/floor junction. The channel itself was lined with a cementitious slurry and water tested to assure that all ingress would make it to the sump chamber. Two sump chambers were installed in diagonal corners of all three properties with a NP750 and NP400 battery back system to protect the houses in case of power outage. In addition, each pump was commissioned on a 50mm discharge line and the Newton 520 membrane was installed on floors with a screed finish.

The Result

This system has been tested and the clients are happy with the results.

The Benefits

The Newton 500 lath installed followed the period contours of the property and thus did not encroach on the space.

The system was acceptable to local conservation officers as it was deemed removable for a listed building in addition it was functional and quick and easy to install.

INDEPENDANT WATERPROOFING CONSULTANT: Phil Hewitt and Associates
CONTRACTOR: Stonehouse Property Care

In Picture



Newton system being tested in flooding conditions.



Wall membrane and basedrain installation.



Newton 520 applied to floor area.



Underfloor heating installed prior to screed finish.