

## CASE STUDY



## St Mary's Hall, Brighton

### Extensive Damp Proofing Treatment on Grade II Listed Private School

#### The Project

St Mary's Hall in Brighton is a prestigious private school which required multiple damp proofing treatments as part of its refurbishment. [Miller Bourne Architects](#), in conjunction with Newton's technical department, put together a scheme to successfully damp proof the building using a portfolio of Newton materials. Newton Specialist Basement Contractor [Cavity Tech Systems Ltd](#) was commissioned to carry out the works.

#### The Solution

The building required treatment for driving and penetrating moisture as well as rising damp. The different construction elements within the structure and the space constraints needed to be considered when designing the damp proofing solution.

BBA certified [Newton 803 Newtonite](#) (dimpled meshed membrane) was mechanically fixed to the substrate using Newton Mesh plugs. The dimples face the damp structure producing an air gap which allows for moisture to move behind the membrane.

In addition, the membrane provides a physical barrier to prevent staining to new surfaces which is often the case when heating up structures after the refurbishment process. Nitrates and sulfates are prevented from passing through to the new finishes without the need to inject a chemical damp proof course.



Newton 803 Newtonite membrane was installed.



The mesh is heat-welded into the membrane.



[www.newtonwaterproofing.co.uk](http://www.newtonwaterproofing.co.uk)



[tech@newtonwaterproofing.co.uk](mailto:tech@newtonwaterproofing.co.uk)



+44 (0)1732 360 095

*"The Newton System 800 was easily installed in a timely manner enabling the project to move forward at a pace without the need for drying out time.*

*We were able to provide the client with an insurance backed guarantee for damp proofing this historic school."*

Cavity Tech Systems Ltd

## The Products

### 803 NEWTONITE

BBA certified, Newton 803 Newtonite is a high density polyethylene membrane with a rot-proof polythene mesh that is heat-welded during the manufacturing process to the surface of one side.

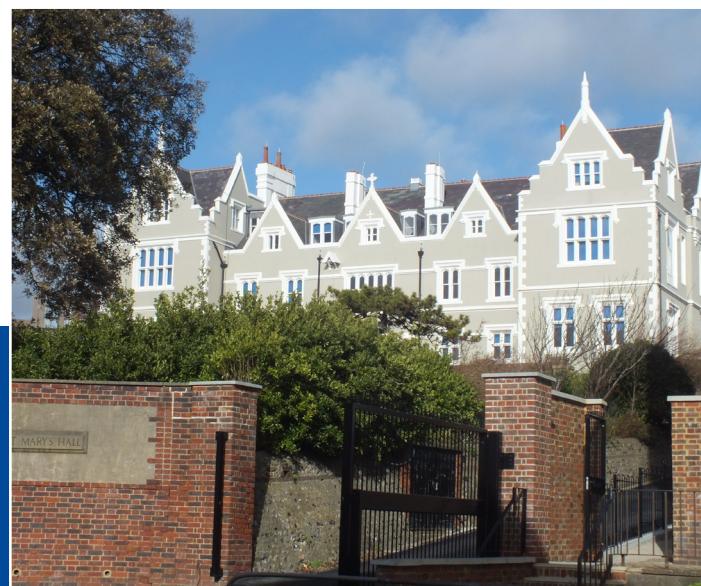
The meshed surface creates a mechanical key to allow the membrane to be plastered, rendered or to receive dot & dab plasterboard.



The prestigious private school is now protected from damp issues.



Plaster was applied directly to the membrane.



The refurbished school is now fully damp proofed.

## Newton Specialist Basement Contractors

Newton recommends that our systems are installed by one of our nationwide network of Newton Specialist Basement Contractors (NSBCs). Trained by Newton, NSBCs offer a full guarantee on the design and installation, and can act as Waterproofing Design Specialists.



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