



Windsor Castle, London

Damp Proofing a Royal Residence of Her Majesty The Queen

The Project

Windsor Castle is the largest and oldest occupied castle in the world and is one of the official residences of Her Majesty The Queen.

The original castle was built around 1080. Further improvements and enlargements took place over the centuries until the magnificent castle that we see today finally emerged in 1830.

The Solution

Windsor Castle had many problems with rising and penetrating damp. Newton damp proof membranes Newlath and Newtonite were used as a permanent solution to the damp problems.

Both rising and penetrating damp has presented problems to the custodians of the castle over the centuries. John Newton & Company are pioneers in the field of 'air gap technology' with their damp proof membranes – the air gap created by the studs on the damp proof membrane allows damp walls to dry out over time. John Newton & Company supplied their old pitch impregnated Newtonite material for remedial work at Windsor Castle in the 1950s.

Newton continued to develop new products and the new polypropylene membrane Newlath which has a mesh thermic welded to the front, has also been used in many parts of the lower regions of the castle over recent years. Newlath is fixed with polypropylene plugs and it allows the area behind the material to 'breathe' whilst the mesh provides a firm key for plasters or renders.

The Result

[System 800](#) provides a surface that is totally separated and unaffected by the dampness within the wall ensuring that the wall finish will never be affected by moisture or salts. The membrane is quick and easy to install, with no need to use injected damp proof courses.



The castle had many problems with damp.



Newlath is an effective solution for damp problems.



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The Products

NEWTON SYSTEM 800

Newton 805 Newlath is a composite damp-proofing membrane comprising high density polypropylene membrane with a polythene mesh 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.



Newlath provides an impermeable barrier on any damp surface.



Issues with both rising and penetrative damp at the castle were resolved.



Newlath was used as a permanent solution to damp problems.

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.



www.newtonwaterproofing.co.uk



tech@newtonwaterproofing.co.uk



+44 (0)1732 360 095