



DAMP PROOFING PROJECT FOR THE NATIONAL TRUST

Newton 805 Newlath used to treat damp in an outbuilding so it could be converted into a cafe

History

This enormous 19th century castle in Snowdonia, North Wales is in neo-Norman style, and is one of the most admired of the numerous mock castles built in the United Kingdom in the 19th Century. A former garage, originally the Castle brewery, was being transformed into a new courtyard cafe. The brickwork was very affected by penetrating damp ingress and structurally degraded, and a damp proofing solution was required which would be acceptable for use in this historic building.

Methodology

To bring the outbuilding into a condition suitable for plastering would have entailed a lot of messy, noisy and disruptive work (needle gun, bush hammer, scabblor or cup brush etc.) - and still would have had a damp problem to deal with. Dry lining was not an option as The National Trust did not want the very straight lines of plasterboard as they wanted to retain an appearance in keeping with the original lime plasterwork. Inner World suggested **Newton 805 Newlath** damp proof membrane finished with a plastered universal one coat plaster (in a 3 coat undulating build-up) which ticked all the boxes and produced a strong, dry and authentic looking wall finish which met all the client's requirements. **Newton 805 Newlath** is ideal for treating listed and historic buildings and it has been used in many historic properties in the past including the Houses of Parliament and Windsor Castle. Newton damp proof membranes conform to the requirements of the conservation authorities for use on historic buildings because they:

- Allow the walls to 'breathe'
- Can be curtain hung behind a framework
- Are deemed reversible

Newton 805 Newlath damp proof membrane acts as a physical separation barrier, and it is mechanically fixed internally to the affected areas. The air gap provided by the stud of the membrane allows the wall to "breathe", thus allowing the damp wall to completely dry out.

Benefits

- New finishes are guaranteed to be protected from the penetrating damp
- Aesthetically the undulating nature of the walls was retained
- **Newton 805 Newlath** is sympathetic to the structure which conformed to The National Trust's strict requirements
- The treatment is reversible so the wall can be returned to its original state if required in the future.

DAMP PROOFING CASE STUDY Penrhyn Castle, North Wales



Penrhyn Castle is a stunning neo-Norman castle in North Wales



The walls in this outbuilding were affected by penetrating damp and had structurally degraded



Newton 805 Newlath was ideal for treating the damp walls as it conformed with Listed Building requirements



The outbuilding is now free from damp problems and has been converted into a cafe