



Damp Proofing the Iconic Tower Bridge, London

Multiple Newton Products Installed at the World Famous London Landmark

The Project

At the world famous Tower Bridge, landscaping contractor [Maylim](#) was commissioned by the [City of London Corporation](#) to investigate why the Bridge Master's Quarters at No.1 Tower Bridge was suffering from damp.

After excavating, they discovered that the structure had no effective damp proofing protection. Newton Specialist Contractor [ASF Waterproofing](#) were commissioned to install new damp proofing measures to solve the issue.

The Solution

ASF Waterproofing approached the project in two phases, using multiple products to effectively damp proof both inside and outside the building.

PHASE 1 (INTERNAL) - After correctly preparing and cleaning the internal wall surfaces, a new damp proof course was installed by injecting [Newton 804-DPC](#) into the wall at regular intervals, then sealing the holes with [Newton 313-WP](#).

The walls were then smoothed with a new internal render, ready for [Newton 103-S](#) to be quickly and easily sprayed to provide a final barrier to water.

PHASE 2 (EXTERNAL) - The ASF team again ensured that the external walls were well prepared and cleaned before applying a new external render coat.

The wall was then thoroughly waterproofed with four coats of the flexible, resilient [Newton 109-LM](#). To ensure that the building was completely protected externally, the waterproofing began at 1-metre below ground level and extended all the way up to the existing windowsills.

The Result

Thanks to their meticulous attention to detail and high standard of installation, ASF Waterproofing were able to provide both the contractor and the client with a high quality and comprehensive damp proofing solution. As a result, the City of London Corporation can now hand over the building to the new lease holder, safe in the knowledge that it is well protected from damp.



Pristine internal damp proofing by ASF Waterproofing.



Using a spray machine to apply Newton 103-S.



"We would like to record our thanks and appreciation for the damp proofing work that ASF Waterproofing undertook at Maylim's One Tower Bridge project. The service provided far exceeded the norm; from the initial contact, through to installation and delivery. Your approach, attitude and the quality of the Newton Waterproofing materials used were first class, and we would have no hesitation in recommending you in the future."

Gerard Purcell
Commercial Director, Maylim

The Products

103-S

A cement-based liquid waterproofing membrane that benefits from extremely high adhesion and can be applied quickly and easily over large areas using an airless spray machine.

Once cured, 103-S forms a hard, durable coating that can resist extremely high levels of water pressure, as well as contaminants in the ground.

109-LM

BDA approved, rubber waterproofing membrane that can be cold-applied to create a seamless, extremely flexible and resilient waterproofing barrier.

The membrane is also radon-certified as it provides a complete vapour barrier, and is suitable for all below-ground structures.

313-WP

A fast-setting compound that expands slightly as it cures in order to instantly seal any defects or holes in masonry or concrete.

The cured product is also exceptionally durable, and actually becomes harder and more resilient when subjected to water pressure.

804-DPC

BBA-certified, high-strength damp proofing cream that is injected into the existing mortar bed to create a new and effective damp proof course.

Once installed, 804-DPC protects walls from the effects of rising damp for at least 20 years, and even improves the thermal performance of the walls themselves.



Newton 109-LM was extremely quick and easy to apply externally.



The external waterproofing also extended 1-metre below ground.



The Bridge Master's Quarters at No.1 Tower Bridge.

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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