

# Delivering Robust Waterproofing for Channing School Junior Development

London, UK

## Location

London, UK

## Client

Channing School

## Starting Date

2025

## Distributor

Smart Concrete

## Background

Channing School, a well-respected all-girls' school in North London, is undergoing further development to its junior school. The redevelopment plans include a rear extension, a new hall, upgrades to existing buildings, and enhanced sports facilities—further cementing the school's place among London's best-equipped educational academies.

## The Challenge

The development features a combination of new-build and alterations to existing buildings, with significant below-ground structures requiring robust and long-lasting waterproofing. The client demanded a solution that would guarantee durability while minimising maintenance and the risk of future water ingress—essential in a high-profile educational setting.

## Solution

To meet the project's high standards, Smart Concrete—known for its reliable waterproofing solutions—delivered a powerful dual waterproofing scheme that ticks all the boxes for client expectations.

### **Newton Hydrobond 403 (Type A – Barrier Protection)**

This advanced external membrane forms a continuous, self-healing layer that blocks water from getting in. It's installed beneath the building's slab and along the retaining walls, acting as the first line of defence against water ingress.



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**Kryton KIM (Krystol Internal Membrane – Type B Structurally Integral Protection)**

Blended directly into the concrete mix, Kryton KIM turns the concrete itself into a waterproof barrier. Using smart crystalline technology, it reacts with water and unhydrated cement to form crystals that seal even hairline cracks—providing long-term, self-sealing protection from the inside out.

Together, these two systems create a fully integrated waterproofing envelope, giving the school's foundations maximum protection and long-term peace of mind.

## Result

By combining Newton's external membrane with Kryton's integral waterproofing admixture, Smart Concrete delivered a fully watertight solution—one that's built to last. The system comes with an industry-leading 35-year performance guarantee, giving the school and its stakeholders total confidence that the below-ground areas will stay dry, durable, and maintenance-free, built to last the test of time.

## Conclusion

The Channing School Junior Development is a prime example of how advanced waterproofing technologies—provided by trusted experts—can safeguard the longevity and integrity of modern educational spaces. With Newton and Kryton systems in place, the school's investment is future-proofed, ensuring a dry, safe, and inspiring environment for both pupils and staff.



*Kryton KIM can significantly enhance the performance of concrete; it flows effectively, minimising the risk of poor compaction defects, reducing the risk of shrinkage cracking, and providing a smooth surface finish.*