



SIKA AT WORK

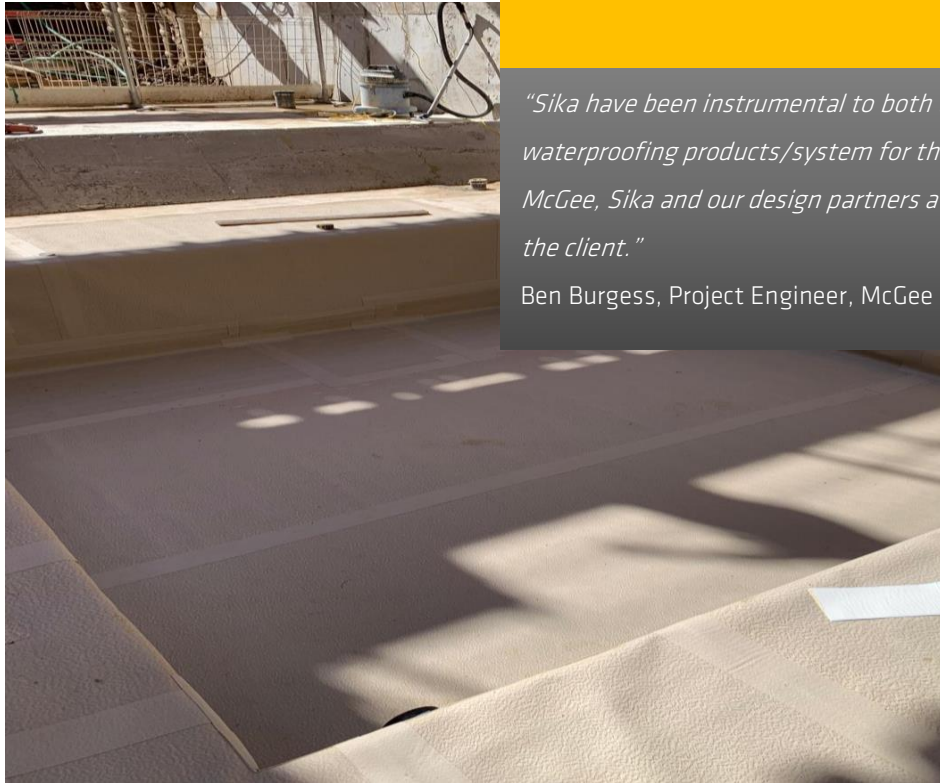
St John's Wood, London

Waterproofing: Sika® Watertight Concrete, SikaProof® A08+, Sika® Cavity Drain

BUILDING TRUST



ST JOHN'S WOOD, LONDON



"Sika have been instrumental to both the design and providing of compliant waterproofing products/system for this high-profile project. Working together, McGee, Sika and our design partners at EPG, have delivered a top-quality project for the client."

Ben Burgess, Project Engineer, McGee



PROJECT REQUIREMENT

As part of a new residential scheme in London, 120 private dwellings are planned, plus the restoration and re-purposing of a Grade II listed building into a high-spec Leisure Community Hub. The redevelopment of the area includes a 22,000m² basement in which Sika waterproofing products were specified.

Principle contractor McGee was chosen to undertake the demolition, piling and basement works packages, which included installing and providing a grade 3 waterproofed basement.

Grade 3 waterproofing was required throughout the entire project, designed in accordance with BS8102:2022. A completely dry internal space was needed, which meant two forms of waterproofing for the 22,000m² basement. Sika was chosen as the preferred waterproofing supplier, working closely with trusted partner McGee from April 2023 on the project.

PROJECT SOLUTIONS

A selection of Sika products were selected in order to provide a suitable solution for the location and for the team to complete their work in the most effective manner. 24,000m² of SikaProof® A08 and A08+ was utilised on the basement slabs of the project with SikaSwell® applied to all concrete joint.

SikaProof® A+ 08, an FPO sheet membrane effectively acts as both a ground gas proof and watertight membrane for the concrete basement box. SikaProof® A+ 08 is designed for reinforced concrete structures and can be pre- or post-applied.

Offering fast and easy installation, a special hybrid bonding layer on the membrane forms a full and permanent dual bond with the concrete structure. Joints are sealed with cold-applied tapes and the product offers high flexibility and crack-bridging capabilities along with high resistance to water pressure.

All concrete was supplied by Tarmac, and, for the project, 13,000m³ of Sika® Watertight Concrete and 12,000m² of Sika® Cavity Drain was used, with SikaSwell® utilised on all concrete construction joints.

Sika® Watertight Concrete is now the most widely used system of its type in the UK. The product incorporates a range of admixtures to improve its resistance to infiltration and is designed for basements, lift pits, retaining walls and concrete façades.

4,500m² of Sikalastic® 8800 – a two-part, pure polyurea waterproofing and protection membrane - was used on the ground floor podium deck, protecting multiple areas below including, commercial, plant and retail. Finally, Sika Multidur® EB-14 slip resistant, coloured, rigid flooring system was used as a coating for the carpark.

PROJECT PARTICIPANTS

Principle Contractor: McGee

Designer: EPG

Sika Products: Sika® Watertight Concrete, SikaProof® A08+, Sika® Cavity Drain

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