SIKA AT WORK
1 BANK STREET, CANARY WHARF, LONDON

WATERPROOFING: Sika® Watertight Concrete, Sikaproof® A-12, Sikaproof® P-12, SikaSwell® A Profiles, Sika® WT-200, SikaFuko®, Sika® Metalsheet FBV, Sika® Cavity Drainage and Sikalastic®-1K

BUILDING TRUST

1 BANK STREET
CANARY WHARF, LONDON

LATEST DOCKLAND TOWER GUARANTEED A WATERPROOF FUTURE THANKS TO SIKA

The Project

Sika supplied the fully-comprehensive solution to provide the ultimate watertight protection for a basement within a commercial superstructure that is destined to earn 'landmark' status in London's Canary Wharf.

Located within the capital's thriving dockside district, 1 Bank Street will occupy a 5,000m^2 footprint upon its completion. The stunning 28-storey building, which will be 145 metres above ground when complete, is designed to include cutting-edge trading floors on three levels. A large slip form core forms a significant part of the fully fitted-out building which has achieved an 'Outstanding' BREEAM rating, making it one of the most sustainable and desirable buildings of its type in London. Designed by globally-renowned architects, Kohn Pederson Fox Associates (KPF) in conjunction with structural engineers, Arup, 1 Bank Street will provide capacity for 6,000 full-time equivalent jobs, enhancing the role of Canary Wharf as a prime London office and employment location.

The Solution

Due to the development's construction on 25 metres of reclaimed land in a high water table area, Byrne Bros, the concrete contractors selected by the project's clients, Canary Wharf Group, required a proven, high-performance system to put a long-term watertight seal on the basement. Sika's waterproof solution proved ideal for the task.
The building's concrete basement was designed to meet the requirements of a Grade 2 environment to BS 8102: 2015. It will contain a car park and vital plant equipment, hence a range of Sika products were used to provide the maximum waterproof protection to its reinforced raft slab. These included Sikaproof® A-12, a highly-durable, watertight membrane, and Sika® Watertight Concrete powder, a powerful state-of-the-art admixture. SikaSwell®-A profiles, which swell in contact with water, were used to seal the basement's construction joints.

Vulnerable joints within the basement's walls, which contained Sika® WT-200, a powerful, crystalline waterproofing admixture, were bolstered with SikaFuko® – a range of solid core PVC Injection Hose Systems. Sika® Metalsheet FBV, a coated metal sheet with excellent adhesion to fresh concrete, was used in the structure's kicker joint. Sikalastic®-1K, a flexible, fibre-reinforced mortar, was applied to pile heads and faces at slab interface junctions, whilst a Sika® Cavity Drainage membrane provided the basement's south-east wall with a secondary layer of waterproof protection. SikaProof® P-12, a permanently-bonded, self-adhesive composite sheet membrane system, added a watertight layer to the basement's toe projection. SikaProof® A-12, a composite sheet membrane, added a waterproof layer to the water-retaining dock wall.

The Outcome

Pierce McCready, Project Engineer at Byrne Bros, said: "The Sika waterproofing option ticked all the boxes for this huge project, hence its specification. For a high water table area it was imperative we selected a system that was proven and trustworthy. The Sika products didn't let us down – the quality of their workable, durable properties is without question."

The 1 Bank Street building is scheduled for completion in 2019. Its future as a landmark addition to Canary Wharf's imposing and spectacular skyline will be long-term safeguarded at its base by Sika's superior concrete waterproof system.

For further information call 0800 292 2572.

bsi. ISO 9001 Quality Management FM 12504 | ISO 14001 Environmental Management EMS 45308 | OHSAS 18001 Occupational Health & Safety Management OHS 585274

SIKA LIMITED
Head Office
Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
United Kingdom

Contact
Phone +44 1707 394444
Fax +44 1707 329129
Email enquiries@uk.sika.com
www.sika.co.uk
@SikaLimited

BUILDING TRUST