



## PROJECT CASE STUDY

# The Shard, London

- Architect: Renzo Piano
- Developer: Sellar Property Group
- Main Contractor: Mace



**Renzo Piano involved RIW in the design process for this iconic building in London's South Bank.**

### The Problem

This mixed-use, 1016ft tall 'vertical city' will be the tallest building in Western Europe and is therefore in need of a solid basement waterproofing strategy. The site sits in a low risk area with regards to the water table, and watertight concrete provides significant protection against water ingress. However, the depth of the basement means that additional waterproofing assurance is needed to completely seal the plant rooms.

### The Solution

RIW Toughseal was specified and used as a chemically resistant and waterproof coating to plant room floors within the basement to protect adjacent rooms from water damage.

Another requirement was to enhance the traditional ventilated drained cavity design to ensure water ingress through deep piled walls was contained within a channel behind a blockwork lining wall. RIW Toughseal was the ideal membrane to be applied within this channel where limited access restricted working space.

### Featured Products

#### RIW Toughseal

A liquid applied coating, RIW Toughseal is solvent free, polymer modified, colour coded and based on epoxy resins. Typically used in areas that require excellent tensile adhesion, chemical resistance and abrasion resistance such as plant rooms and under raised access floors.

Typical uses:

- Raised access floors
- Ground floor DPM
- Plant rooms
- Bunded areas
- Changing rooms
- Shower rooms
- Swimming pools

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