



The Shard

The skyline of London has changed a lot over the last few decades, starting in 1991 with the appearance of One Canada Square and its neighbouring Canary Wharf tower blocks. In 1999 the London Eye appeared on the horizon at the South Bank, then in a project lasting from 2009 to 2012 the Shard rose above them all, creating another vantage point from which to view the capital.

The Shard is a magnificent feat of architecture and engineering and is the tallest building in the European Union. It is 306 metres high and has 87 floors; it incorporates state of the art offices, apartments, a hotel, restaurants, retail outlets and of course a viewing gallery.

A thin screed was needed for several

floors in the Shard's upper levels and Ronafix Pre-packed Screed 6-50mm was specified because of its durability and its high compressive, flexural and tensile strengths. As a pre-packed system it provided the specifier with assurance of consistent high quality.

Ronafix Pre-packed Screed 6-50mm is supplied as a two component product comprising powder and polymer gauging liquid; used with Ronacrete Standard Primer it bonds to suitably prepared surfaces and is water resistant. It can be used as thin as 6mm for bonded screeds or 35mm for unbonded or floating screeds. Used as a floating screed it is compatible with under floor heating systems.





Café Royal

The Café Royal in central London dates back to the 1860s and was a popular place to eat and drink for many well known literary and theatrical figures over the years. It was refurbished in the 1950s but closed for business in 2008.

The Café Royal was reopened as a luxury hotel during the summer of 2012. The opening followed a major interior refurbishment which retained the original detailing, combining it with contemporary décor.

The hotel's newly marble-fitted bathrooms required a thin, water resistant floating screed to be applied to the insulation boards

providing a base for the marble flooring. The screed needed to withstand the weight of the marble baths and other fixtures.

Specialist building and construction distributor Resapol, after consultation with Ronacrete's technical team recommended Ronafix Pre-packed Floating Screed 35mm+ as a suitable screed to be laid above the underfloor heating system in the 159 Café Royal bathrooms. Ronafix Pre-packed Floating Screed 35mm+ is a thin section, high strength, waterproof screed particularly suitable for the project requirements.





Heathrow Airport

Terminal 2 at London Heathrow Airport was replaced as part of a £4.8bn development programme at the airport. The Terminal 2 project which is estimated to have cost around £2.5bn included the main building, a 522-metre satellite pier, a 1,340 capacity car park, an energy centre, cooling station, and road refurbishment.

The project was completed in 2014 and is home to STAR Alliance, Aer Lingus, and Virgin Atlantic's domestic routes.

The lead architect for the new terminal was Luis Vidal Architects collaborating with Foster and Partners and Pascall and Watson. To replace the original old and outdated building which opened in 1955 they designed a bright and modern space, with impressive runway views from the departure lounge, making use of the natural light that pours in through the ten metre high windows and north facing skylights. The terminal is also designed to give priority to environmental issues and energy-efficiency.

The complete terminal covers a floor

space of 185,000m², extending into the existing Terminal 1 site. The floor takes heavy traffic from the 20,000,000 passengers plus associated trolleys and airport vehicles who are estimated to cross it annually.

Vetter UK, the specialist contracting arm of Laing O'Rourke needed to specify a fast drying 135mm deep screed so that the project could continue with minimum disruption, saving time and costs. RonaScreed 8 Day Overlay Fast Drying Screed was specified for its fast drying properties and the fact that it could be mixed at ground level and then pumped up the three storeys to the point of application, saving on time and cost.

RonaScreed 8 Day Overlay Fast Drying Screed is a screed additive which when added to a screed enables earlier access by following trades and reduces drying time. Screeds can be laid later in the construction program, reducing likely damage by following trades and saving unexpected bills for surface DPMs.





Cambridge University

South Court is a Grade II Listed Building owned by Sidney Sussex College, part of the University of Cambridge. Building Surveyors and Architects Pleasance Hookham and Nix Limited were commissioned to refurbish the property and part of the work required re-waterproofing of the first floor terrace. The terrace provides access to student accommodation and waterproofing to the rear of the shop units below.

Pleasance Hookham and Nix Limited specified Ronafix Pre-packed Screed 6-50mm to be laid to falls to provide drainage to the new terrace construction, which was to be waterproofed with mastic asphalt and finished with a tiled surface, providing protection to the existing structure below. Ronafix Pre-packed Screed 6-50mm is designed to be laid as a thin bonded screed

and has very low permeability, high strength and negligible shrinkage. All components of Ronafix Pre-packed Screed 6-50mm are pre-measured in Ronacrete's factory, giving assurance to the specifier that the screed will perform as expected.

Pleasance Hookham and Nix Limited appointed Cocksedge Building Contractors Limited to carry out the works. The concrete deck was prepared in accordance with Ronacrete's recommendations and primed with Ronacrete Standard Primer before Ronafix Pre-packed Screed 6-50mm was laid to falls on the freshly applied primer. Early application of the asphalt waterproofing was possible because Ronafix Pre-packed Screed 6-50mm dries faster than traditional sand and cement screeds, reducing the delay between application of the screed and waterproofing.

