

Liquid roofing solutions for Education facilities

High performance roof coating systems from Tor





CASE STUDY

London South Bank University

London South Bank University (LSBU) was established in 1892 and is home to over 23,000 students making this one of the oldest and largest universities in central London. As part of a refurbishment programme, Tor Coatings helped the University repair a number of weather damaged roofs.

These flat, asphalt-decked roofs were cracked, crazed and blistered - all common symptoms of repeated exposure to the weather. Their poor condition had led to leaks and caused disruption to University operations.

Refurbishing the roof like-for-like with asphalt was not a desirable option. Not only would it eventually end up in same condition, the application process involved hot works - which introduced a fire risk.

Tor Coatings surveyed the roof and the Elastaseal™ roof coating system was specified.

One of the many benefits of specifying Elastaseal™, from the University's perspective, was that it could be installed while the building remained operational. Other benefits were the speed at which it could be applied and the coating's ability to waterproof details with ease. The Elastaseal™ system successfully upgraded the failed roof, providing long term waterproof protection.

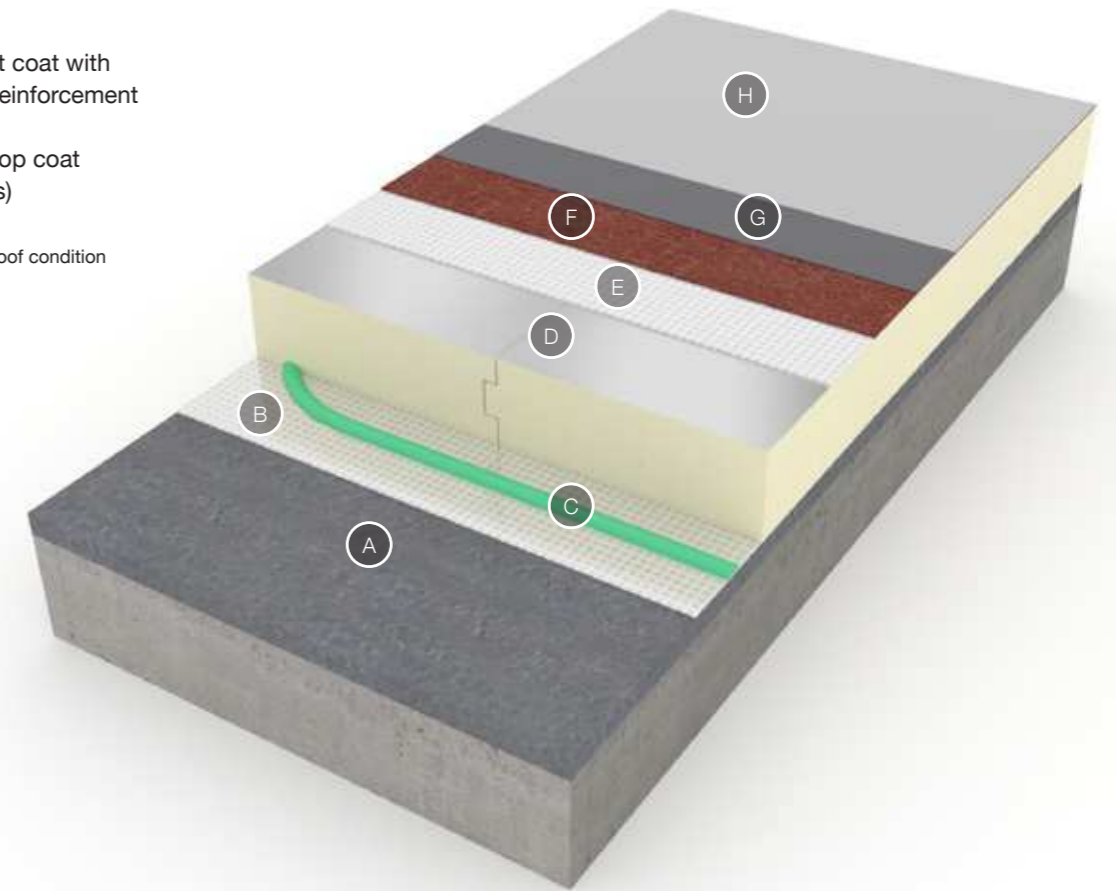
Installation was carried out by a Tor Partners contractor. The Tor Partners scheme assures the client that Tor's coating systems are applied by competent professional contractors in accordance with individual project specifications.



Typical build-up of the Elastaseal™ warm roof system

- A - Prepared existing roof substrate
- B - Vapour control layer*
- C - Elastaseal™ FIA (foaming insulation adhesive)
- D - Thermal insulation panel
- E - Carrier membrane
- F - Elastaseal™ embedment coat with Elastamat™ glass fibre reinforcement
- G - Elastaseal™ top coat
- H - Additional Elastaseal™ top coat (for 20 year plus systems)

* Optional - dependent on existing roof condition



Coatings used in Elastaseal™ 25 year systems are approved by the British Board of Agrément.



Cladding Coatings is an approved installer of the Elastaseal™ roof coating system from Tor Coatings - a proven long term solution to the problems associated with flat roofs in schools, colleges and universities.

Elastaseal™ is an intelligent range of roof coating systems that can be applied to both old and new roofs.

Based on advanced liquid technology, the systems offer a simple - yet highly effective - means of providing long term, weatherproof protection to a roof.

Elastaseal™ can be applied over an existing failed roof membrane, making it waterproof and extending its serviceable life. The systems are compatible with most common roofing substrates including felt, asphalt, bitumen and concrete.

The coating system is applied by brush and roller in cold liquid form. When cured it forms a joint-free, seamless barrier membrane that incorporates everything on the roof and delivers the ultimate in waterproof protection.

CASE STUDY

University of Northumbria, Newcastle

Northumbria University is a rapidly expanding learning community, with excellent links to higher education, industry and commerce throughout the UK, Europe and beyond.

Tor Coatings worked with the University to repair a number of problem flat roofs, which were leaking and causing inconvenience to staff and students.

When Tor surveyed the felt roof deck they found a number of joints had failed and this was allowing ponded water to enter the building. The water was entering classrooms and communal areas and becoming a health and safety issue.

The University appointed a Tor Partners contractor who coated the roof with the Elastaseal™ system. The roof was cleaned down and the system was applied directly over the existing felt membrane.

The Elastaseal™ system was applied to everything on the roof, making it completely watertight. Pipes, railings, upstands and gutters were all seamlessly incorporated.

As is the case with Elastaseal™ projects, installation could be carried out with the building occupied due to the cold nature of the product.

The Management team at the University were so impressed with the quality, performance and convenience of Elastaseal™ they have now specified it for use on the roofs of other buildings throughout the campus.



CASE STUDY

Towerbank Primary School, Edinburgh

Towerbank Primary School is a beautiful stone building located beside the scenic Portobello Beach in the East of Edinburgh. This historic landmark was founded in 1883 and remains a true icon of the City's heritage and architecture.

The 18th century building had a flat asphalt roof to the rear of the building that was badly degraded. The cracked substrate was allowing ponded rainwater to enter the building, which was leaking through the classroom ceilings causing a major health and safety issue.

Tor Coatings provided a free site survey and specified the Elastaseal™ system. This system is guaranteed to keep the roof watertight for up to of 25 years.

As is the case with all Elastaseal™ projects, installation could be carried out with the building occupied due to the cold nature of the product.

Once the project was completed Tor Coatings received top marks from the school for making their leaking roofs a thing of the past.



Elastaseal™ can also be specified with thermal insulation built in. This improves the thermal efficiency of the roof, reduces energy bills and can help with Building Regulations compliance.

All Elastaseal™ installations come with a manufacturer's guarantee that covers the product performance for its specified life expectancy (up to a maximum of 25 years). Insurance backed guarantees are available upon request.

If you're having problems with an existing flat roof or looking to add protection to a new one, simply get in touch with Cladding Coatings. We'll help you every step of the way and make leaking roofs a thing of the past.

CASE STUDY

Durham University

Durham University has been a leading centre of scholarship for over 1000 years. Often mentioned in the same breath as Oxford and Cambridge, the prestigious Sunday Times University Guide currently ranks Durham as the 3rd best University in the UK.

Working in conjunction with a Tor Partners contractor, Tor Coatings was involved in the waterproofing of a combined roof surface area in excess of 6,000m², over the University's Chemistry block.

The existing asphalt roof membrane had been degraded by thermal fluctuations that had resulted in water ingress, which was becoming increasingly problematic.

As the photographs illustrate, the buildings had a significant amount of roof-mounted plant. Tackling this with traditional materials such as felt would be impossible. Even molten asphalt would struggle to cope with it and the associated risk ruled it out in any case.

Tor's Elastaseal™ roof coating system was perfect for the project. Every surface could be coated by brush or roller and - once cured - the new membrane was completely seamless. Best of all, the installation was carried out during term time without inconveniencing the University's staff and students.



Elastaseal™ 25 has been approved by the British Board of Agrément.



For further information on Tor Coatings products or to arrange a free site survey please contact:



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