

For every building surface inside and out, we've got it covered.



Durham University

Chemistry Department, South Road, Durham

Information

Tor Coating system used:

 **Elastaseal Z**

Category

Roofing

Sector

Education

Guarantee

25 years

Coverage area

1500m²

Background

Durham University is a collegiate public research university in Durham, North East England, founded by an Act of Parliament in 1832. The University's Chemistry Department has a combined roof area in excess of 6,000 square metres.

1

Free Site Survey

Before the correct coating system could be specified, Tor Coatings carried out a comprehensive free survey of the site to ensure every aspect of the project was clearly understood and all defects were documented thoroughly.

The survey found that the University's asphalt roof membranes had been degraded by thermal fluctuations which resulted in water ingress. They required a long-term solution but refurbishing with asphalt was not a desirable option; asphalt is naturally susceptible to the effects of the weather and must be applied in a molten state, posing a serious fire risk and significant disruptions to the building.

2

Project Specification

Elastaseal Z from Tor Coatings provided the most practical and effective long-term solution for the University's roofing problems. The system offered the significant advantages of no onsite mixing and no need for naked flames as with comparable hot work bitumen roofing systems. It works by seamlessly encapsulating the existing roof substrate, creating a new membrane that is not only 100% waterproof but also allows the roof beneath to 'breathe' due to its vapour permeability, preventing roof leaks for up to 25 years.

3

Installation

The project was carried out by Roofing Consultants Ltd with site support from the Tor sales and technical service team. The system was applied to the University's roof by brush and roller, just like a regular paint.

4

Continued Support

In addition to the comfort of having a 25 year BBA accreditation, the project is covered by Tor's comprehensive 25-year single point warranty. During this period, we will carry out regular scheduled inspections to ensure that the performance is delivered for the client.

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After

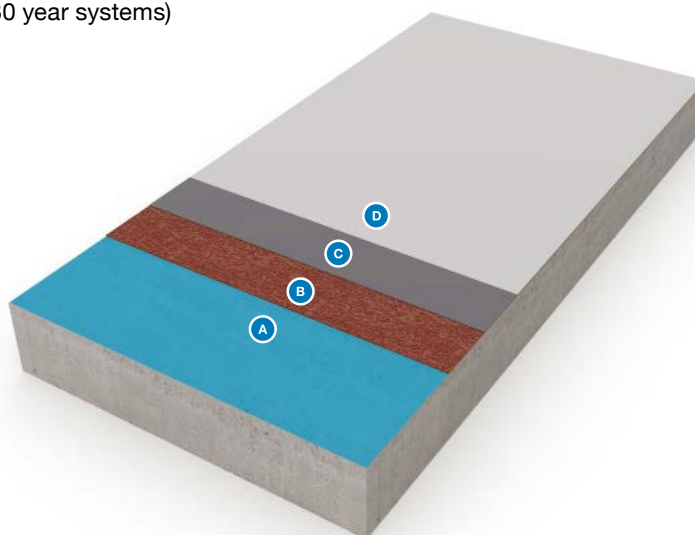
Elastaseal Z

Key benefits:

- Cold liquid applied - no hot works on roof
- Safe to install - unobtrusive repairs
- Easy to apply and detail
- Compatible with most existing roof membranes
- No need to remove serviceable existing membranes, minimising landfill waste and building remains protected during installation.
- 10, 15, 20 and 25 year systems available
- Elastaseal Z low odour option (up to 30 year systems)
- British Board of Agrément (BBA) approved
- Permanently elastomeric and seamless
- Excellent resistance to ponded water
- Fibre reinforced for maximum film strength
- Easy to maintain - excellent through life costings as system can be re-applied at end of serviceable life

Typical build-up of the Elastaseal Z system

- A** Prepared existing roof substrate
- B** Elastaseal embedment coat with Elastamat™ glass fibre reinforcement
- C** Elastaseal top coat
- D** Additional Elastaseal Z top coat (for 30 year systems)



For more information and further project profiles please visit www.tor-coatings.com
To speak to a member of the sales team call 0191 4106611 or email marketing@tor-coatings.com