



CASE
STUDY

Triflex

Delivering solutions together.

ROOF WATERPROOFING
MAIDSTONE, KENT

ST. SIMON STOCK SCHOOL

Area
1,000m²
Systems
Triflex ProTect®
Triflex ProDetail®

Authorised Contractor
Concept Roofing & Cladding
Consultant
Ashley Consultants UK Limited

The challenge

Triflex have teamed up with Ashley Consultants UK Limited and Triflex authorised contractor, Concept Roofing & Cladding Services, to completely refurbish four roofs at St. Simon Stock Catholic School in Maidstone, Kent.

The roofs of the mixed secondary school and sixth form with academy status were in urgent need of renovation as the existing mineral felt and asphalt waterproofing solutions were failing, allowing water to ingress into the classrooms, kitchen and dining hall below. The previously installed mineral felt had been subjected to ponding water over a number of years causing the membrane to degrade, and the asphalt had developed a number of defects including cracking and ruckling. The thermal performance of the roofs also needed to be upgraded as the minimum requirements of Part L2B of the Building Regulations were not being met.

Due to the complexity of the project each roof required a tailored solution. Triflex worked in close conjunction with Ashley Consultants UK and Concept Roofing & Cladding to ensure that the right solution was chosen. This was done through intensive surveying and testing including U value, and condensation risk analysis calculations. This was especially critical for the roof containing the kitchen below, as an incorrectly specified solution could have had adverse effects on a high condensation area such as this.





The solution

Ashley Consultants UK specified that there were to be no hot works carried out on site in order to minimise health and safety risks and eliminate the significant risk of fire associated with their use. Triflex were easily able to meet this requirement as all Triflex systems utilise cold liquid applied technology which does not require hot works. This also allowed installation to be carried out during term time whilst the building was fully occupied, with no disruption to the everyday operation of the school.

Triflex ProTect warm roof system and Triflex ProDetail were extensively used on the project. In many cases it was possible to overlay the previous substrate, resulting in a fast installation with minimum disruption.

Where issues with ponding water had previously been apparent, new gutters and outlets were created using cut to falls insulation to enable the water to drain away. Furthermore, the Triflex solution is hydrolysis resistant, so if there were to be issues with ponding water in the future it would have no adverse effect on the waterproofing. Triflex ProDetail was used to waterproof various details, including upstands and new roof lights which had also been installed. Lastly, the incorporation of the insulation within the warm roof build-up provided the required improvement in thermal performance and energy efficiency.

Triflex

Delivering solutions together.

Triflex is the leading European specialist in liquid waterproofing solutions. Our high-quality systems provide reliable and lasting waterproofing for roofs, balconies and parking decks. We are a family owned and operated company that provides individual solutions worldwide. From our production facilities based in Minden, Germany, we have been researching and developing solutions designed to protect and repair our clients structures for more than 40 years.

In the UK we pride ourselves on providing our clients with tailored solutions and exceptional levels of service & support throughout all stages of their project. From conducting in-depth site surveys, to our comprehensive testing and off-site and on-site support we ensure your project is completed on time and to the highest standards. All Triflex solutions are certified to the relevant UK & European standards and are accompanied with long term warranties to provide peace of mind.

Triflex (UK) Ltd.
Whitebridge Way
Stone
Staffordshire
ST15 8JS

☎ 01785 819119

🌐 www.triflex.co.uk

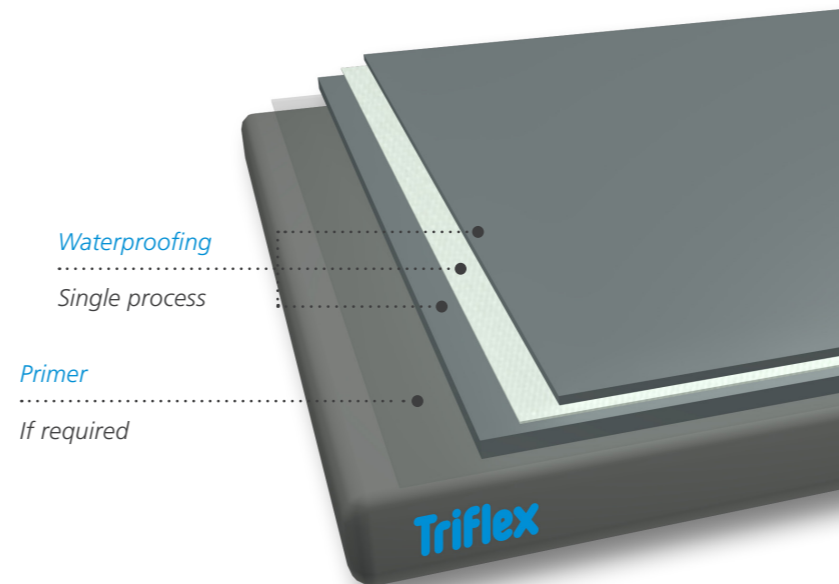
✉ info@triflex.co.uk

🌐 Triflex (UK) Ltd

🐦 @TriflexUK

System benefits Triflex ProTect®

- Totally cold applied, with no risk from hot works
- Compatible with virtually all roof substrates
- Suitable for almost all build-ups including failing felt and asphalt
- Exceptionally rapid curing / rainproof times, even at low temperatures
- Fully reinforced waterproofing technology
- Suitable for zero pitch, completely flat and pitched roofs
- Simple, single process waterproofing application
- Hydrolysis (standing and ponding water) resistant



System benefits Triflex ProDetail®

- Totally cold applied, with no risks from hot works
- Suitable for all common roof details and repairs
- Compatible with virtually all roof substrates
- Exceptionally rapid curing / rainproof times, even at low temperatures
- Fully reinforced waterproofing technology
- Designed to allow use on vertical surfaces
- Simple, single process waterproofing application
- Seamless - with no joints, seams or fixings

