



SIKA AT WORK

WEST SUFFOLK HOSPITAL

ROOFING: Sika Liquid Plastics Decothane and Decothane Ultra





DECOTHANE IS EFFECTIVE MEDICINE FOR WEST SUFFOLK HOSPITAL ROOF

BACKGROUND

Sika Liquid Plastics has specified and supplied a roof upgrade solution for West Suffolk Hospital to renew the waterproofing membrane on multiple areas of the hospital campus and create a gradual pitch to aid drainage while enhancing the building's thermal performance.

The project is the fourth and final phase of a roof refurbishment at the hospital in Bury St. Edmunds, where significant issues with standing water had comprised the existing felt and asphalt roof surfaces and were causing an ongoing risk of water ingress.

A large district hospital set in 19 hectares of parkland, West Suffolk Hospital has around 430 beds and serves a population of around 275,000 within an area of approximately 600 square miles. It offers a wide range of services, including oncology, maternity, paediatrics and orthopaedics, within an estate that dates back to 1973.

REQUIREMENT

Delivered by specialist contractor, Allard Construction, the phase four programme included seven sections of the building in a 20 week programme. The seven areas that needed work were all under heavy coverage of mechanical plant and pipework, and consequently there were large areas of restricted access, these issues made Sika Liquid Plastics the perfect choice for the project.

SIKA LIQUID PLASTICS SOLUTION

Sika Liquid Plastics' technical team carried out a full condition survey to help inform the technical specification and input into a full solution that addresses the issues with standing water, brings the building up to current Part L building regulations and offers a robust, long-term waterproofing solution.

Core samples were taken on each roof area where possible. Where this was not possible due to standing water, the team used their expertise of the substrate to develop the technical specification.

Our most current General Sales Conditions shall apply.
Please consult the Data Sheet prior to any use and processing.



FM 588020



EMS 588023



OHS 588025

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The resulting proposal included making good the existing asphalt on all roof areas within the project scope and raising the perimeter details to accommodate the level of the new insulation. Sika Liquid Plastics proposed a warm roof specification with tapered Decotherm insulation along with Decothane Delta 25 & Ultra 25 cold-applied liquid membrane. The tapered insulation created a gentle fall allowing water to drain off the roof preventing areas of standing water.

For each roof area, Allard Construction drained any standing water, cleaned the substrate, removed any chippings and made good the existing asphalt surface. Once the roof surface had been cleaned and prepared, the Decotherm insulation was laid onto the existing substrate, which also served as the vapour control layer (VCL).

Sika Liquid Plastics' S-Vap 5000E SA self-adhesive carrier membrane was then installed onto the insulation prior to application of the membrane. Because of the nature of the project it was essential that the work was low-odour especially in areas of the hospital where patients were more receptive to odours, such as in the maternity ward. Following this Decothane Delta 25 or Ultra 25 membrane were applied in the respective areas.

Throughout the 20-week project, Sika Liquid Plastics' technical team attended site to carry out weekly inspections, photographing and reporting the progress on site as part of a thorough quality assurance process.

Louie Farrington, Area Technical Manager from Sika Liquid Plastics, comments: "This was an extremely complex programme of works in a live hospital environment and the specification of the Sika warm roof system not only ensures a BBA-accredited service life of 25 years but also enabled installation of the cold-applied system with no hot works or disruption to patients and staff.

"The result is a completed series of roofs that address the risk of standing water and provides improved thermal performance while extending the service life of the hospital building.

PROJECT PARTICIPANTS

Product: Sika Liquid Plastics Decothane and Decothane Ultra
Size: 12,000m²
Client: NHS West Suffolk Hospital
Contractor: Allard Construction

