



SIKA AT WORK

ZETLAND PRIMARY SCHOOL, REDCAR

ROOFING: Decothane Ultra, Decotherm Insulation Board, SVAP-5000, Sika Primer 610





DECOTHANE ULTRA PREPARES ZETLAND'S OLDEST PRIMARY SCHOOL FOR FUTURE GENERATIONS

BACKGROUND

Part of the Ironside Academy Trust, Zetland Primary School is the oldest school in Redcar, established by Lord Zetland in 1859.

The school's felt covering had begun to fail and problems with water ingress were exacerbated by degradation of a number of small parapets. Insulation across the various roof areas was also inconsistent and below the thermal performance requirements of current building regulations.

REQUIREMENT

The project comprised essential roof repairs and upgrades to the thermal performance of the building with additional insulation. To ensure the long-term success of the project, work was also required to make good both the parapets and the valley gutters, which were obscured by the eaves.

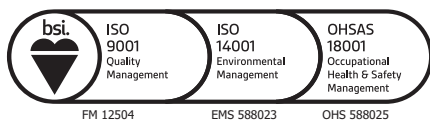
To answer this requirement, an overlay project using Sika Liquid Plastics' Decothane Ultra was selected, delivering a 25-year service life, while providing virtually odourless cold applied system.

SIKA LIQUID PLASTICS SOLUTION

Sika Liquid Plastics has developed a specialism in the education sector and works with building surveyor partners to help academies like Zetland Primary access various funding streams, including the Condition Improvement Fund (CIF), which the Government can offer to academies with an urgent building maintenance or upgrade requirements. A Sika Liquid Plastics Area Technical Manager carried out a full condition survey of the roof and a technical specification was developed to support the school's funding bid application.

Sika Liquid Plastics' technical team worked with surveyor partner, Silverstone Building Consultants, to carry out a condition survey, develop a technical specification and manage the funding bid application.

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Core sample testing on one 80m² section of the roof indicated that the roof build-up in this area was too severely degraded for an overlay so this section was stripped out and new Decotherm insulation was installed prior to application of the Decothane Ultra System by Sika Liquid Plastics' Quality Assured (QA) Contractor, Hodgeson & Sayers.

Following repairs to the brick parapet and removal of slates from the eaves, the remainder of the roof was overlaid using Sika Liquid Plastics' Decothane Ultra system.

The existing felt surface was used as the vapour control layer for the installation and Sika Liquid Plastics Decotherm PIR installation board was laid directly onto the roof in varying profiles depending on the existing insulation in each area.

Hodgeson & Sayers then used Sika Liquid Plastics' spray-on Primer 610, aiding speed of installation. This was followed by Sika Liquid Plastics' S-VAP 5000 self-adhesive carrier membrane. Finally, the installation team applied Sika Liquid Plastics' Decothane Ultra cold-applied liquid roofing system, taking it over the parapets and the valley gutters to completely encapsulate the roof before adding a new GRP trim and replacing the slates.

Simon English, Head Teacher at Zetland Academy commented: "The partnership between Sika Liquid Plastics and Silverstone Building Consultants was a critical factor in enabling this project to take place because their technical expertise and sector experience were vital to securing the CIF grant.

"Thanks to the Decothane Ultra system's service life of 25 years and the neat finish, which has tackled the problem areas of the parapets and the gutters, many more generations of Zetland children can now look forward to learning at Zetland Primary School."

PROJECT PARTICIPANTS

Contractor: Hodgeson & Sayers Ltd

Roofing Client: Zetland Academy

Size: 600m²

Products: Decothane Ultra, Decotherm Insulation Board, SVAP-5000, Sika Primer 610

