



SIKA AT WORK

ALL SAINTS CATHOLIC ACADEMY, MANSFIELD

ROOFING: Sika Liquid Plastics Decothane Ultra





SIKA OFFERS ULTRA EFFECTIVE SOLUTIONS FOR SCHOOL ROOF REFURBISHMENT

BACKGROUND

Sika Liquid Plastics' Decothane Ultra cold-applied liquid roofing membrane has been used to refurbish the roof of All Saints Catholic Academy in Mansfield, providing a solution that has addressed water ingress, thermal performance and awkward detailing around roof lights without causing any disruption to lessons or health and safety concerns on site.

REQUIREMENT

Sika Liquid Plastics worked with the education funding/project management consultants, Make Consulting Limited and the school's management team to compile and submit the paperwork required to secure Condition Improvement Funding (CIF) for the project.

Craig Gould, director at Make Consulting explains: "Improving the condition of a school building not only reduces the maintenance burden but also creates a more comfortable and productive environment for students and staff.

"By working together to help schools access capital funding in this way, we can ensure that projects are carried out with minimum stress and as efficiently as possible."

With funding secured, Sika Liquid Plastics, advised on the technical specification for the project to address the specific requirements of the building.

All Saints Academy is a one and two-storey building on a sloping site with a roof area of 2,425m² featuring several roof lights. The seal around the roof lights had failed, causing water ingress and the existing felt roof surface had reached the end of its serviceable life and required replacement. In addition to addressing these maintenance issues, the roof refurbishment also provided an opportunity to upgrade the building's insulation in line with current building regulations, improving thermal comfort levels for staff and students and contributing to operational cost management.

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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SIKA LIQUID PLASTICS SOLUTION

Sika Liquid Plastics' QA Approved Contractor, Ice Roofing, began by preparing the roof surface - a timber substrate with a vapour control layer and existing 80mm PIR insulation board under a double layer of felt. In some areas, the roof had also been covered with chippings and Ice Roofing removed these with a scabbler wherever possible. The Ice Roofing team then used Sika Liquid Plastics Decostik® Foaming Adhesive to create an even surface in areas where it was not possible to remove the excess chippings to fix Sika's 90mm Decotherm Flat Board insulation onto the existing roof surface.

The contractor then installed Sika's S-Vap 7000E DP self-adhesive carrier membrane to the insulation board prior to application of the Decothane Ultra liquid membrane.

The inclusion of an additional 90mm of insulation board raised the roofline of the building and Ice Roofing installed a new 150mm black GRP trim around the perimeter of the roof to create a neat finish for the new roof height.

An additional challenge for Ice Roofing was the existing roof lights on the building. The roof featured conventional roof lights which were removed and replaced with new Sika Decolight triple skin polycarbonate roof lights and insulated kerbs to provide a more thermally-efficient solution and address water ingress issues. The roof also features rooftop windows with a glazed front and cladding on the remaining three sides. Ice Roofing removed the existing cladding and replaced the glazing, sealing the non-glazed sides with Decothane Ultra.

Paul Sellars, contracts director at Ice Roofing said: "From the detailed specification based on a thorough site survey to technical visits throughout the project, Sika Liquid Plastics' involvement ensures that every element of the project is addressed with a practical, solution-driven approach.

"This project will not only ensure a warmer, watertight school building, it has also been designed to offer lower maintenance and an extended service life. The liquid system was ideal for tackling the project's detailing challenges with a low odour solution that enabled us to complete the works during term time."

PROJECT PARTICIPANTS

Product: Decothane Ultra

Size: 2,400m²

Client: All Saints Catholic Academy

Contractor: Ice Roofing

