



# SIKA AT WORK

## HEYMANN PRIMARY AND NURSERY SCHOOL, NOTTINGHAM

ROOFING: Decothane Ultra 25, Decotherm insulation board,  
S-Vap 5000 self-adhesive vapour control layer, Decolight roof lights



# DECOTHANE ULTRA MAKES CHILDS PLAY OF LIVE SCHOOL ROOF REFURB

## BACKGROUND

Heymann Primary & Nursery School in Nottingham is located in two buildings on a linked site. While the new nursery accommodation was purpose built in 2014, the main school building is a large, single storey school constructed in the 1970s.

Poor drainage on the school's flat roof had made it vulnerable to standing water and leaks and, with minimal insulation, the building fabric was significantly below current building regulations.

## REQUIREMENT

The school had identified the Condition Improvement Fund (CIF) as a source of finance to enable an essential roof repair project.

The existing roof surface was a bituminous covering with minimal insulation. In addition to addressing the poor condition of the roof surface to prevent leaks and protect the fabric of the building, the roof refurbishment project also included upgrading the insulation to bring the building's thermal performance up to current building regulations standards. The brief for the project also included the need to resolve issues with standing water on the roof, thereby protecting the roof from water ingress in the future.

As the project had to be delivered within a live school environment, a cold-applied liquid roofing solution was required to avoid the use of hot works on site. The live environment also called for a low odour solution to prevent disruption from nuisance odours.

Finally, the project required replacement of the building's existing roof lights, which had reached the end of their service life.

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## SIKA LIQUID PLASTICS

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## SIKA LIQUID PLASTICS SOLUTION

Sika Liquid Plastics worked with building consultancy, MAKE Consulting, to help the school access Condition Improvement Funding (CIF) to enable the project to go ahead.

The Sika Liquid Plastics Technical Team, Quality Assured (QA) Contractor, Central Roofing, and MAKE then worked collaboratively to design a cost effective solution.

Steven Redgate from MAKE, comments: "The school needed a solution that would address the historic issues with the roof and ensure that similar problems didn't recur. By working collaboratively with Sika Liquid Plastics in an expert partnership from the outset, supporting the funding bid from survey and technical specification through to compiling the complex bid application, collectively we were able to achieve the outcome the end user required."

The warm roof was installed as an overlay, using Sika Liquid Plastics S-VAP 5000 self-adhesive vapour control membrane prior to installation of the insulation.

To address the historic issues with standing water, the 100mm Decotherm insulation specified across the roof area was supplemented by an additional 50mm of Decotherm in areas prone to standing water in order to create 600mm channels, providing an innovative gutter and sump solution.

The Decothane Ultra 25 system was installed and Central Roofing stripped back the façade system where it interfaced with the roof to complete the detailing quickly and easily, taking the liquid roofing system over the edge of the roof onto the vertical wall surface before reinstating the tiles.

Central Roofing also replaced more than 20 existing roof lights using Sika Liquid Plastics' Decolight roof lights fitted into the original apertures.

## PROJECT PARTICIPANTS

**Roofing Contractor:** Central Roofing

**Roofing Client:** Heymann Primary & Nursery School

**Size:** 1,800m<sup>2</sup>

**Products:** Decothane Ultra 25, Decotherm insulation board, S-Vap 5000 self-adhesive vapour control layer, Decolight roof lights

