

Sika at Work



## Roofing

### Case Study at Kings Ford School, Colchester

Application Field: **Cold Fusion Bonded Built-Up Roof System**





### Project Requirement

The original asphalt roof of Kings Ford Junior School was leaking and a new waterproofing system was required, with the addition of insulation so that the school could meet current building regulations. However, the exterior detailing to the original roof had been painted white, giving the roof a distinctive appearance, and the client did not want the addition of insulation to alter this appearance. Furthermore the budget would not allow for all roof areas to be completed so the works needed to be phased over two years.

### Sika Liquid Plastics Solution

A Cold Fusion Bonded Built-Up Roof System from Sika Liquid Plastics was tendered alongside the standard Essex County Council 10 year performance felt specification. The Liquid Plastics' specification came out on top and was applied with 100mm Decotherm insulation and a Decothane Omega 15 waterproof 'cap sheet'. The main roof was coated with Steel Grey Decothane and the perimeter details were re-coated with white. The new concrete stairs, cast onto the roof to provide a fire escape, were protected with Oxide Red Decothane incorporating anti-slip grit.

The Sika Liquid Plastics' system was chosen because the colours could be selected to reduce the visual impacts of the works and the insulation could easily be set back from the edge, preventing any major change to the appearance without hugely impacting the cost of the project. The work could also be split into two phases and tendered separately over two years, however the client would still receive a single point guarantee for materials and labour under the Sika Liquid Plastics' Quality Assured Contractors Programme. Once installed the complete system will remain waterproof for at least 15 years, and was seen to be the most cost effective solution for the school.

### Project Participants

Size: 600m<sup>2</sup>

Contractor: Acclaim Roofing

Client: Atkins on behalf of Essex County Council



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