SIKA AT WORK
VICTORIA QUAY, EDINBURGH

ROOFING: Decothane Ultra cold-applied liquid roofing system,
10mm Decothane insulation Board, S-VAP 7000 E DP self-adhesive vapour control layer

Liquid Plastics

DECOTHANE ULTRA PROVIDES THE QUAY TO TROUBLE-FREE SCOTTISH GOVERNMENT REFURB

BACKGROUND

Designed by globally-renowned international architectural practice Robert Matthew Johnson Marshall (RMJM), Victoria Quay is a Scottish Government building in Edinburgh, which was officially opened by HRH the Queen in July 1996.

Providing a workplace environment for more than 2,200 civil servants, Victoria Quay is the Scottish Government's largest building in terms of size and occupancy figures and occupies a prominent location in the centre of Edinburgh. It is also mission critical to Scottish Government business, and must remain operational on a 24/7 basis throughout the year.

With 16 inverted and ballasted roofs and a further six plant room roofs combining to create a total roof area of 8000m^2, the scale of the roof refurbishment was considerable.

REQUIREMENT

Water had penetrated through the ballast and insulation material on the inverted roof build up at Victoria Quay, compromising the asphalt waterproofing membrane hidden beneath and enabling water ingress to the building.

The project also called for retention of the existing ballasting, which required careful sequencing of works, in line with structural loading guidance from a structural engineer.

SIKA LIQUID PLASTICS SOLUTION

With its virtually-odourless, extended service life and ease of application, Sika Liquid Plastics' Decothane Ultra cold-applied liquid solution was ideal for the Victoria Quay roof refurbishment. Delivering instantaneous waterproofing protection on application of the first coat, Decothane Ultra enabled a flexible approach to scheduling the year-long roof refurbishment from Quality Assured (QA) roofing contractor, Graham Roofing, along with a sensitive approach to minimising noise, odours and risk on site.

Tackling one roof area at a time, the Graham Roofing team installed the Decothane Ultra system as an inverted roof build up. The ballasting for each section was removed and stored on an adjacent roof area enabling strip out of the insulation and cracked, perished asphalt, before preparing the substrate using Sika Liquid Plastics' S-VAP 7000 E DP self-adhesive vapour control layer. The Decothane Ultra low odour solution was then applied and allowed to cure, prior to installation of 100mm Decotherm insulation board and reinstatement of the original ballasting. This process was repeated for all 16 roof areas.

For the plant room roofs where no insulation was required, Graham Roofing applied Sika Liquid Plastics' metallic primer to the roof deck, followed by the Decothane Ultra system.

Comments Ally Timms from Graham Roofing: "This was an extremely large and complex roof refurbishment project and installation of the Decothane Ultra system was the easiest element of the whole job.

"We were able to complete the project with no complaints from occupants and no business interruption to the Scottish Government, thanks in no small part to the ease of installation and low odour formulation of Decothane Ultra."

PROJECT PARTICIPANTS

Contractor: Graham Roofing
Roofing Client: Mitie TFM on behalf of the Scottish Government
Size: 8000m^2
Products: Decothane Ultra cold-applied liquid roofing system, 10mm Decothane insulation Board, S-VAP 7000 E DP self-adhesive vapour control layer

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