SIKA AT WORK
TOLLCROSS INTERNATIONAL SWIMMING CENTRE, GLASGOW

ROOFING: Sika Liquid Plastics' Decothane Ultra 20 year system in RAL 7011, S-VAP 5000, Decotherm 140mm insulation and Primer 610

Liquid Plastics

Sika®

DECOTHANE ULTRA PROVIDE A WINNING SOLUTION FOR WORLD-CLASS LEISURE SWIMMING CENTRE

BACKGROUND

A world-class sports facility where professional athletes train and compete, the Tollcross International Swimming Centre in Glasgow includes two 50m Olympic size swimming pools and a range of dry sports facilities.

The original building had a built-up aluminium roof system which had reached the end of its service life. To address these issues, Glasgow City Council decided to carry out a roof refurbishment, upgrading the roof with a new warm roof build up as part of a wider programme that also included an internal refurbishment of the pool area.

REQUIREMENT

The roofing project was planned as a two-phase refurbishment with the main pool area internal and external works carried out during phase 1 to accommodate upcoming planned competitions, and the roof of the remaining core building refurbished as phase 2, ready for the 2018 European Championship Swimming Competition in August. Although the pool was closed during phase 1, the rest of the building stayed open for public use throughout so it was vital to use a low odour, low hazard roofing system. Decothane Ultra's cold-applied, low odour system was the ideal solution for the project.

It was essential that the specified system could provide a robust solution that would both protect the building from water ingress and cope with the condensation rising up to the roof area from within the pool room.

The roof build up also needed to improve the thermal performance of the building to improve the energy efficiency of the facilities.

Glasgow City Council stipulated a particular shade of grey for the roof and the provision of non-slip walkways and a static line system to ensure the safety of maintenance teams.

SIKA LIQUID PLASTICS SOLUTION

Following a site inspection and condition survey by Sika Liquid Plastics' Area Technical Manager, Group Tegula was appointed as the Quality Assured (QA) contractor for the project.

Water ingress through the built up aluminium roof system and condensation from within the building had caused the existing insulation to perish and the roof was stripped out to the lower aluminium deck for each phase.

After preparing the roof, Group Tegula installed an acoustic insulation layer, followed by Sika Liquid Plastics' Primer 610 and S-Vap 5000 Air and Vapour Control Layer(AVCL). The 140mm Decotherm insulation was then installed, followed by a further layer of S-Vap 5000, and the Decothane Ultra cold-applied liquid system was then applied in a RAL 7011 grey colourway. The Decothane Ultra BUR 20-year system achieved thermal improvements to the roof, achieving a U-value of 0.17.

Following completion of both phases, a non-slip maintenance walkway was installed on the roof along with a static line system. The lightning protection system to the roof was amended and a new grid system installed and connected to earthing points.

The Decothane Ultra 20 year system was installed as an overlay to the boiler room roof area with the Group Tegula team applying the liquid system below rooftop plant.

PROJECT PARTICIPANTS

Contractor: Group Tegula
Roofing Client: Glasgow City Council
Size: 7,000m²
Products: Decothane Ultra 20 year system in RAL 7011, S-VAP 5000 Decotherm 140mm insulation and Primer 610

SIKA LIQUID PLASTICS
Sika House,
Miller St,
Preston,
PR1 1EA
United Kingdom

Contact
Phone +44 1772 259781
Fax +44 1772 255670
E-Mail liquidplastics@uk.sika.com
www.liquidplastics.co.uk
@LiquidPlastics

Liquid Plastics