



DLS (Diamond Light Source) - The Synchrotron, Didcot, Oxon

Client:

Diamond Light Source (DLS)

Specialist Contractor:

Thelwell Flooring Limited

Products Used:

Atako VE Resin Systems

Contact:

NCC Resin Flooring

01257 266696

www.resinflooringsite.co.uk

Case Study

Diamond Light Source is a not-for-profit company, funded as a joint venture by the UK Government through the Science & Technology Facilities Council (STFC), working in partnership with the Wellcome Trust. This state-of-the-art facility is at the forefront of British technological research and development for many industries.

Diamond Light Source (DLS) is the UK's synchrotron, which works primarily as a giant and ultra-powerful microscope, harnessing the power of electrons to allow scientists to study anything from fossils to jet engines, or viruses and vaccines, in minute detail and with an ultra-bright light. This work is predominantly at sub-atomic levels and dangerous liquid nitrogen has to be used in many of their processes, which means that special protection is needed for the concrete floors as well as the people working in many of the experimental and research areas of the facility.

The new floor finishes also need to provide durable protection against a whole range of other different chemicals, together with eliminating any potential dusting from abrasion and wear on the floors by traffic during the research. To meet all these requirements, Thelwell Flooring installed an Atako VE vinyl ester resin system, reinforced with glass fibre fabric where required. The Atako VE system provides excellent chemical and mechanical resistance, plus these systems can uniquely withstand exposure to liquid nitrogen at extremely low temperatures.

