EMSEAL

'Watertight by Design'

Yondr Data Centre
Slough

Client:
Yondr Group

Main Contractor
ISG Hyperscale Projects

Specialist Contractor
Getjar Limited

Main Products Used:
Emshield DFR System

For More Information:
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Case Study

Yondr is developing a UK hyperscale, 3-story datacentre campus, consisting of three large data hall buildings, being built on the site of the former Gas Works site of the Akzo Nobel paint factory, in Slough, West of London. The data processing facility will eventually have a total processing capacity of 100MW, and the first new building with a capacity of 20MW is currently being commissioned. The second is nearing completion for commissioning later in 2024, and the third is on track for completion in 2025.

The new buildings are very similar in design, and they each contain large high tech data halls, where the heavy equipment is installed. To accommodate the necessary loadings and service traffic, the wide (>100mm) structural floor slabs all required a high-performance expansion joint sealing solution. This had to be CE certified with up to 4-hours fire integrity and thermal insulation, whilst accommodating a high degree of multidirectional movement (laterally +/- 50% for an overall 100% joint movement capability), with secure watertight sealing and detailing. This also had to be installed with a recessed cover plate system to withstand frequent, and sometimes very heavy, vehicular traffic. These requirements were all essential to maintaining the buildings fire compartmentalisation, and ensuring structural integrity would be maintained in the event of fire.

The ideal solution was provided by NCC (Movement Joints) Limited using Emseal's Emshield DFR System recessed into the joints, with a CPG cover plate system installed over the top. The installation was carried out professionally by Getjar Limited to leave a clean, flush finish for smooth traffic access across the floor..

NCC **Movement Joint Systems**