



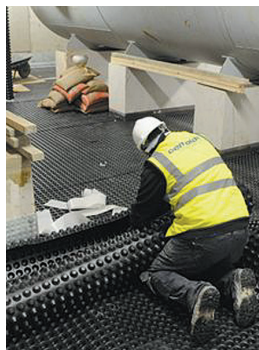
## **Case Study**

### **Crystal Palace National Sports Centre**

In preparation for the 2012 London Olympic Games, the swimming pool in the existing Grade II listed Crystal Palace National Sports Centre was required to be extended to meet the 50m Olympic standard. When it came to engaging a specialist, **Cemplas Waterproofing and Concrete Repairs Limited** who are currently celebrating 40 years of trading were appointed as they demonstrated the full range of skills and solutions to meet the demands of this multi skilled project. The scope of works was to carry out the internal waterproofing of the pool, plant rooms and ventilation tunnels, plus repairs to the diving boards which was part of the complex's major £67 million regeneration

The dedicated Sika 1 division, of Cemplas undertook the waterproofing to the Main pool and diving pool, using the Sika 1 pre-bagged waterproofing system to provide complete protection against leakage.

To complete the watertight solution, and protect all joints subject to movement, Sikadur Combiflex was applied to all construction joints and junctions where the swimming pool wall met the floor.



Once the swimming pool had been completed, the Cavity membrane division of Cemplas followed on to deal with water ingress in the plant rooms and vast ventilation tunnels. Using Sika's Cavity Drainage System this was applied to cover the walls and floors. Once the Cavity Drainage System had been installed, a plaster membrane was applied to the walls, and a screed incorporating a

drainage channel was laid over the membrane. A sump was created, and pumps installed to run any discharge into the plant room. In all almost 2500m<sup>2</sup> was undertaken.

In addition to undertaking the Waterproofing, the Concrete repair division of Cemplas resin injected extensive cracking to the soffit of the tunnels beneath the pool. The repair division also carried out extensive Concrete repairs to the listed diving board structure using a Sika Concrete repair system and corrosion Inhibitor. Once the repairs had been completed, Cemplas Waterproofing & Concrete Repairs applied the finishing touch by sourcing and applying a specialist protective/ decorative coating suited to the environment of a swimming pool.

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