



## **Paignton Zoo environmental park**

### **Watertight concrete system**

**Sika® concrete system:** Sika® watertight concrete system, SikaSwell® jointing system

**Client:** Paignton Zoo environmental park

**Architect:** Kay Elliott Architects

**Engineers:** Winward Dexter

# Paignton Zoo environmental park

The crocodiles at Paignton Zoo Environmental Park in Devon have no fear of their pools running dry thanks to the Watertight Concrete system supplied by **Hanson Concrete**. Often associated with keeping water out of structures, in this case the system has been used to keep the water in.

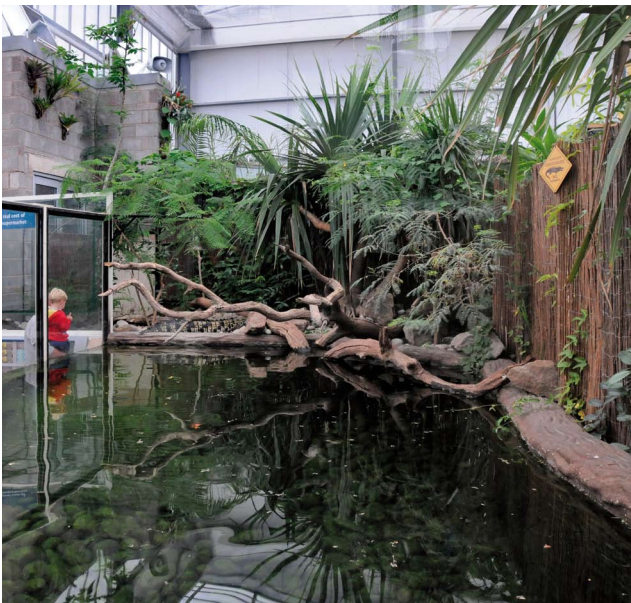
The recently opened £1.5 million Crocodile Swamp is the Zoo's latest main attraction and is home to two Nile crocodiles, one saltwater and three Cuban crocodiles, who all enjoy a home from home tropical environment within the Swamp. The Cuban is one of the world's most endangered crocodiles and one of the Zoo's missions is the conservation of wildlife in a natural looking environment – a challenge successfully taken on by Kay Elliott Architects to give an engaging and imaginative experience to the swamp's visitors.



Structural engineers Winward Dexter specified **Sika® Watertight Concrete**, which is BBA certified with a 50 year track record, for the five pool enclosures within the swamp – an ideal and cost effective solution in fulfilling the design brief. **Hanson Concrete** supplied 200 cubic metres of watertight concrete to the project.

The construction joints were taken care of with the **Sikaswell®** jointing system, which consists of joint sealing profiles that expand on contact with water to seal any voids between adjoining concrete slabs.

The Crocodile Swamp has proved to be a huge attraction and apart from the crocodiles, visitors can enjoy a collection of pythons and boa constrictors and a dazzling array of tropical plants in their own enclosures within the swamp.



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