

## Project Info

**DEC 1** 01 / 12 / 16

**CC** CCH8™ Bulk Rolls

**#** 100m<sup>2</sup>

**V** Transverse layers

**G** St Quentin Zoo, Aisne Department, France

**H** Eiffage TP Route

**i** CCH8™ was used to line newly constructed ponds in bird and mammal enclosures in St Quentin Zoo, France

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BY CONCRETE CANVAS

**EIFFAGE**  
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A finished pond at St Quentin Zoo

In December 2016, CC Hydro™ (CCH, branded Cimtex Hydro in France) was used to line newly constructed bird and mammal ponds in St Quentin Zoo, located in the Aisne department in France.

In a regeneration project, a number of new ponds were excavated inside bird and mammal enclosures at the zoo which required a lining solution that could not only provide impermeable water containment, but could also withstand the damage and erosion that would come over time from the impact of the mammals' and birds' hooves, claws and so on. A resin solution was considered for the project but the speed of installation of CCH convinced the client to choose CCH. The material's ability to meet the other aforementioned characteristics were also an advantage.

The works were carried out by Eiffage TP Route for St Quentin Council.

Prior to installation, the ponds were excavated to the required shape, with anchor trenches dug around the perimeter. The ground was then prepared for the CCH material to be laid, ensuring there was no vegetation, rocks or stones in the soil; this way, the CCH is laid onto a smooth surface.

\*Geosynthetic Cementitious Composite Mat



St Quentin Zoo



The CCH was laid transversely across the ponds



Thermal welding on the CCH joints



Pressure testing of the welded joints



A completed pond



One of the ponds was created for a bird enclosure



*A view of the pond in the Wallaby enclosure*

Once the ground preparation was complete the CCH material was delivered to the site in bulk rolls of CCH8™, which was mounted onto a spreader beam and digger, and unrolled transversely across the width of the ponds. The CCH layers thermally welded using Leister Twinny T and Triac welding equipment and the edges of the CCH material was secured in the anchor trenches using ground pegs. The CCH material was hydrated and the anchor trenches backfilled. This process was repeated for each of the ponds.

A total of 100m<sup>2</sup> of CCH8™ were installed in 2 days, following 2 days of preparatory groundwork, by a team of 2 people, in cold weather. The installation was successful and the client was very pleased with the result. They have since finalised and confirmed a second project with Concrete Canvas® at the Zoo.