

Project: Repair and Prolongation of Service Time of the Concrete Structures of the Pools in the “Zwembad Overbosch” in Den Haag (NL)

Subject: Application of CAST³⁺ conductive coating

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Project Description

The concrete structure of two pools in the “Zwembad Overbosch” in Den Haag (NL) was exposed over a prolonged time period to warm water loaded with calcium hypochlorite. The outside of the concrete of the overflow channels and of the concrete pool walls will be protected with the CAST³⁺ anode system.





Concrete structure (overflow channels, concrete pool walls) of the Zwembad Overbosch in Den Haag.

The damages to the concrete origins from the corrosion of the steel reinforcement in the concrete overflow channels and in the concrete pool walls due to the ingress of chloride and hypochlorite.



Visible damages to the concrete (cracks, effluorescence, steel corrosion products) due to ingress of water loaded with calcium hypochlorite into the concrete structure of the pools of the Zwembad Overbosch.

The steel reinforcement in the concrete overflow channels and the concrete pool walls will be protected from corrosion by applying CP with the CAST³⁺ conductive coating, forming the CAST³⁺ Composite Anode.

Design and Concept of the CP systems is contracted to Anthony van den Hondel/CPS (www.cp-supplies.nl). Installation of the CP systems and related works will be executed by Vogel Kathodische Bescherming B.V., a subsidiary of Joh. Mourik & Co. Holding B.V. (<http://www.vogel-kb.nl>).

The CP systems were installed in July/August 2012, the CAST³⁺ composite anode system on the outside walls and bottom of the pools:



CAST³⁺ Composite Anode installed on the outside walls of one of the swimming pools - overview



CAST³⁺ Composite Anode installed on the outside walls of one of the swimming pools - close up view



Acrylic cover coating (Sikkens Alphatex IQ) on the CAST³⁺ Composite Anode installed on the outside walls of the swimming pools