



Abcite®

Corrosion Protection



Maximum protection against corrosion for railings in a Belgian sub-tropical recreational center

Contractor

Hengelhof recreational centre of Houthalen-Helchteren, Belgium

Project

The railings and trellis of the stairways leading to the toboggan and sun terrace and those of the bridges linking the various swimming pools of this subtropical recreational paradise needed a complete renovation. In a first step, the most corroded metal parts were replaced by new ones coated with Abcite®, a wear and tear resistant coating. This coating also ensures maximum protection against chlorine and the ambient humidity.

Problem

Good protection against humidity, corrosion, abrasion and impact stress is always dependent upon the choice of a suitable coating, together with appropriate pretreatment and application. Failures in the past were due to the fact that these simple rules had not been followed.

The shocks sustained during routine maintenance and the humidity in the pool area would make wide patches of finish come away from the underlying metal structure. Children using the railings would hurt their hands, and the bare metal parts be exposed to corrosion.

Solution:

The original coating had not been applied evenly and had therefore been subjected to serious damage. Replacement metal frames were evenly coated with DuPont Abcite®. Abcite® is part of a new family of thermoplastic powder coatings, which can be easily applied electrostatically (after preheating) or fluidised-bed coating.

The latter technique was applied to the trellis, whereas the electrostatic process was used for the railings. A shade of green was chosen for the thermoplastic coating powder, as this

color is best suited to match the ornamental plants and palm trees of the subtropical recreational center.

Benefits:

- Abcite® is classified as non-hazardous and is a sound choice for in-door swimming pools.
- Abcite® resists corrosion caused by humidity, water and chlorine.
- The thermoplastic coating feels much softer than bare steel.
- All edges and intricate parts are evenly covered, thus adding to the overall soft touch.
- The parts coated with Abcite® are easy to repair, should damage occur.

Application case history

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DuPont Powder Coatings