

## A Mechanical and Chemical Resistant Flooring Solution for the Cogeneration Plant from Capwatt



Capwatt's goal is to provide reliable and high quality electrical and thermal power, optimizing partners' overall energy solutions and costs.

**Project Name:** Capwatt/Sonae, Lisbon Portugal  
**Products:** Stonclad ® UR • Stonkote ® HT4 pewter • texture#2 • safety yellow kerbs

### Overall energy solutions

Capwatt develops, designs, builds, owns and operates high efficiency on-site combined heat and power plants, with its partners, on a win-win basis. Capwatt's goal is to provide reliable and high quality electrical and thermal power, optimizing partners' overall energy solutions and costs.

Eligible sites typically consist of an industrial site featuring significant electrical and thermal consumption (steam, hot water, hot gases, etc).By designing a high efficiency, combined heat and power plant, Capwatt is able to supply all relevant types of energy at competitive rates, thus optimizing the industrial site overall energy solution and costs.

Capwatt invests, owns and operates the plant for a long period (15 years +), within the framework of a Power Purchase Agreement with its host (the industrial site owner).

### A mechanical and chemical resistant floor solution

The installation area is an industrial site/power plant of 1.100 m<sup>2</sup>, where Capwatt has a cogeneration plant that produces all the energy for the Shopping Colombo (biggest shopping mall in Portugal) located in Lisbon.

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**We recommended our Stonclad UR high performance urethane mortar flooring system with Stonkote HT4 coating and texture # 2. The ground floor had moisture problems and was contaminated in some places. Therefore we offered a system which could provide adhesion to the substrate despite the problems of the existing ground floor.**

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The substrate consisted of concrete with a worn coating system which was contaminated with oils and grease. As they receive a lot of important customers in the plant, Capwatt asked for a floor solution that would be mechanical and chemical resistant and at the same time safe and easy to clean.



### The Stonhard Difference

Stonhard is the unprecedented world leader in manufacturing and installing high-performance polymer floor, wall and lining systems. Stonhard maintains 300 Territory Managers and 175 application crews worldwide who will work with you on design specification, project management, final walk through and service after the sale. Stonhard's single-source warranty covers both products and installation.

1.100 m<sup>2</sup> flooring in pewter with 100 m' kerbs in Safety Yellow



Besides this we had to meet the expectations of the customer regarding performance, easy cleaning and security.

Preparation was also critical in this project. This included grinding and shot blasting to ensure an adequate bonding between the concrete and the Stonclad UR.

All kerbs were coated with a safety yellow coating. This was decided to ensure safety in this environment.



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