**Cap Ferrat Building – Dekton® by Cosentino**

Photos <https://cosentino.box.com/s/riqm8d6utke8zv5g017q2wknkp3ynnug>

1. **Project details:**

**Name:** Cap Ferrat Building

**Address/location:** Av. Vieira Souto, 564 - Ipanema, Rio de Janeiro, Brazil

**Project end date:** 2013-2016

**Construction schedule:** 12 months

1. **Architecture studio/architect:**

DI FILIPPO ARQUITECTURA

Juan Carlos Di Filippo Architect – Rosario-Argentina National University

Collaborators:

Gabriela de Lana

Carolina Luz

Renata Martinho

Marina Accioly

1. **Builder/Cladding installation:**

GMM-ANCHOR SYSTEMS

SA MARTINS SLIDING DOORS

Q-RAILING - RAILING SYSTEMS

1. **Cosentino Materials:**

Application: Façade

Material: Dekton® by Cosentino

Colour: Danae

Thickness: 12mm

Quantity (m2): 3,800 m2

Format: Custom

Installation system: Keil anchors, metallic insert

**Project Definition**

**3,800 m2 of the ultracompact surface Dekton® by Cosentino have been used in the remodelling of the façade of the iconic Cap Ferrat building**.

Cap Ferrat is an iconic residential building located on the exclusive Avenida Vieira Souto in Ipanema, Rio de Janeiro. Built in 1976, this iconic feature of the Brazilian neighbourhood of Ipanema has a surface area of 2,000 m2 and is 20 floors high. It includes flats, duplexes, garages and spaces for public use.

Between 2013 and 2016, forty years after it was built, a remodelling project was carried out on the building’s balconies cladding due to the deterioration caused by the galvanic corrosion of the aluminium parts of the railings, which caused cracking of the original granite pieces that sheathed the perimeter beams of the tower’s six balconies. The galvanic corrosion was caused by the anchoring system of the aluminium railings, which used pieces of iron. The combination of different metals caused the corrosion. The resulting expansion of the mortar that held the granite pieces caused the original material to crack and break in many areas.

The architecture studio in charge of the project, Di Filippo Arquitectura, studied the behaviour of various materials and decided that Dekton® brought together all the necessary and indispensable requirements for the rehabilitation work on the façade.

The project was completed with the installation of new balconies in laminated-tempered galss, and large format sliding doors, which meant the addition of more than 40m2 (for private use) to each housing unit.

**Dekton® by Cosentino -> Cap Ferrat façade**

When work began on the rehabilitation project, an original idea was distinguished by the need to remove the original damaged pieces. However, this would have meant costs and timeframes unacceptable to the property owners. Given this situation, the great challenge faced by the working team was searching for a new cladding that could be installed over the original and that would weigh no more than 90 kg per square meter. At the same time, due to its proximity to the ocean, the material chosen needed to suit the aesthetics of the outside environment, offering gentle, agreeable colours for its surroundings, as well as offering mechanical properties that could resist the deterioration that this type of area often produces.

Juan Carlos Di Filippo. Architect: *“As we had decided to keep the existing cladding, we had to choose a cladding material with very particular properties: its porosity needed to be as low as possible in order to resist the damage caused by a seafront environment; it needed to weigh as little as possible, but have large dimensions; and it needed to be able to be installed using the system of stainless steel inserts. Last, but not least, it needed to have a low level of solar absorption (characteristic of the area), as well as to suit the chromatic tones of the beach sand, as the Cap Ferrat is located on Ipanema Beach. After analysing several materials, the choice fell on the ultracompact surface Dekton® by Cosentino. It united all the requirements set for the project.”*

Di Filippo Arquitectura chose Dekton® by Cosentino for the façade because it represented 50% of the weight permissible for the material, because it could be made in large-format slabs (3.2 m x 1.44 m) and custom sizes, for the cutting precision of the pieces, for its ideal performance when faced with erosion caused by beach sand and salt residue, and other exceptional qualities such as its high resistance to UV radiation, colour stability and high stain resistance.

The custom cutting of the 12 mm-thick pieces, as well as their number, dimension, and the precise location of the holes, was carried out at the Cosentino factory in Cantoria, Almeria (Spain), for later shipment by boat to Brazil. The holes were made through a novel anchoring technique designed for the project by the company GMM Anchor Systems with the ongoing collaboration of the Cosentino engineering department. Keil pieces provided by Cosentino were used for the anchoring. The rest of the pieces and metal accessories were made by GMM.

***Dekton® by Cosentino has*** [***ETA 14/0413***](https://www.cosentino.com/es/blog/dekton-by-cosentino-obtiene-la-evaluacion-eta-140413-y-el-marcado-ce-como-revestimiento-exterior-de-fachadas-ventiladas/) ***(European Technical Assessment) and CE (for ventilated façades in accordance with ETAG 034) certifications that attest to its ideal nature as a cladding for ventilated façades.***

The Dekton® colour chosen for the façade cladding was the cream colour Danae for its elegance and chromatic similarity to the colour of the beach sand. Dekton® Danae also blends perfectly with the rest of the materials that shape the covering as a whole.

Juan Carlos Di Filippo. Architect: *“Dekton® was the right solution, and the installation of the 3,800 m2 of material happened smoothly and on schedule.”*

**The work on the building was carried out with...**

the installation of new balcony railings in pieces of 20-mm thick colourless glass set into aluminium profiles provided by Q-railing. Broad sliding doors were installed on the frontal balconies. The frontal side columns, originally tilted at 45 degrees, were squared to the upper floor of the garage.

Juan Carlos Di Filippo. Architect: *“The set of interventions carried out provide the contemporary look that we wanted when we started this project.”*

**A total of 3,800 m2 of Dekton® Danae forms part of the remodelled Cap Ferrat building at Ipanema, an architectural icon that will continue its history with a new aesthetic identity.**

**About Dekton® by Cosentino**

The Dekton® by Cosentino ultra-compact surface is a new and innovative category of surfaces created with the objective of becoming a global leader in the world of architecture and design both for indoor and outdoor spaces.

Dekton® is a sophisticated mixture of the raw materials that is used to manufacture glass, porcelain materials and quartz surfaces. The Dekton® surface can recreate any type of material with a high level of quality. It is manufactured in large format (up to 320 cm x 144 cm) and thin thicknesses (0.8 cm, 1.2 cm and 2 cm). It as superior technical characteristics: resistance to UV rays, scratches, stains, thermal shock and very low water absorption.

All of these characteristics unique to Dekton® are present thanks to the technology used in its production, which has been developed exclusively by the Cosentino Group’s R&D department. Dekton® is manufactured with Technology of Sinterized Particles (TSP), an innovative ultra-compaction process. This contributes greatly to the fact that Dekton® is a completely revolutionary product; it is durable, very easy to maintain, and has potential for both indoor and outdoor uses including flooring, façades, wall cladding and worktops.

The prestigious architect and designer Daniel Libeskind used Dekton in the creation of “Beyond The Wall”, his only work in the Iberian Peninsula. Dekton® is sponsor of the “Rafa Nadal Academy by Movistar”, where more than 40.000 m2 of the product have been used in different areas such as the façades, flooring and other coverings.

Dekton XGloss has obtained Red Dot Award: Product Design 2016

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