

SIKA AT WORK

Radisson Blu Hotel, Larnaca, Cyprus

Sika® systems for watertight concrete production, waterproofing, sealing, anchoring & flooring

BUILDING TRUST



RADISSON BLU HOTEL, LARNACA, CYPRUS



PROJECT DESCRIPTION

Situated on the main road of Larnaca, next to the harbor and 10 minutes from Larnaca's International Airport, Radisson Blu Hotel offers the highest quality standards of accommodation. It has 106 unique aesthetics, spacious rooms with sea view and panoramic over Larnaca. In its main category Radisson Blu Hotel offers the largest rooms in Cyprus, but also features a gym, a sauna, an outdoor swimming pool with bar, an all-day restaurant, a lounge bar and a gin bar at the highest point of the city, overlooking the ocean skyline. Additionally, it offers multiple business meeting options, equipped with state-of-the-art technology. It also has a conference area at the top of the hotel, panoramic views of the port of Larnaca, choices that can accommodate up to 450 people in total.

Designed to serve the modern needs of the most demanding professionals, Radisson Blu Hotel offers an exceptional environment of luxury and high aesthetics that easily transforms a business trip into a comfortable and enjoyable hotel experience.

Radisson Blu Hotel is a member of the giant Radisson Hotel Group, one of the world's most well-known hotel chains operating on all continents with 1.400 hotel units.

The operation of the 16-story exceptional architecture design Radisson Blu Hotel not only reflects the exceptional quality of its services but also gives new impetus to Larnaca. The construction of Radisson Blu Hotel is part of Larnaca's major development plan and is a jewel for the city of Zeno.

PROJECT DEMANDS

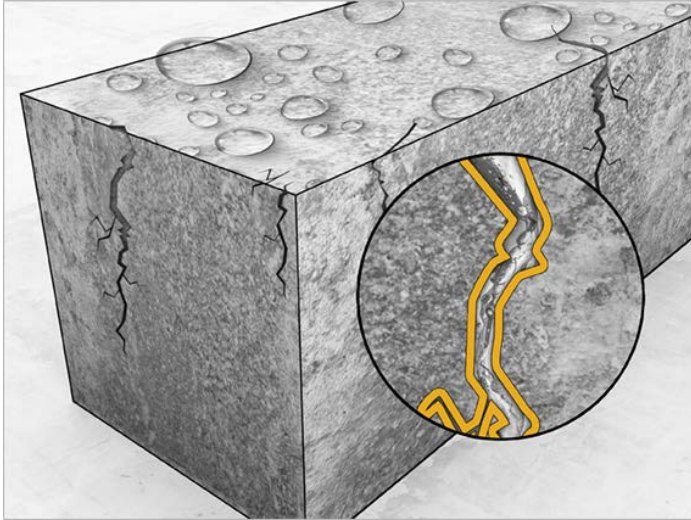
This important investment aimed to bring real change to Larnaca's business landscape, increasing the investment potential of the city. The creation of Radisson Blu Hotel focused on the need to enhance quality tourism and on the aesthetic upgrading of the whole area. Besides, Radisson Blu Hotel caters to the most discerning visitors in Cyprus, offering a complete package of services that takes into account the complexities of traveling in the modern world, whether it's business reasons, or relaxation and entertainment.

During the construction of a hotel unit that expects to provide the highest level of service in a tourist area of great interest that attracts visitors from all over the world, materials and systems have been required for many different applications such as waterproof concrete, waterproofing, sealing, anchoring, joint sealing, repairs, but also for flooring over the 8.500m² underground car park area. Thanks to the wide range of Sika materials, for each requirement there was a product or system that satisfied the requirements of the specification.

SIKA SOLUTIONS

Sika products have been used for various application types:

Waterproof concrete: For the endogenous waterproofing of the concrete mix of wells and drinking water tanks, the **Sika® WT-200 P** special crystalline waterproofing admixture was incorporated into the concrete mix. **Sika® WT-200 P** is a combinatorial product: it is a self-healing admixture with crystalline action and at the same time offers porous sealing and mass waterproofing. The most important in the case of producing **Sika Watertight Concrete** is that Sika offers methods for assessing the level of the achieved watertightness with measurable methods.



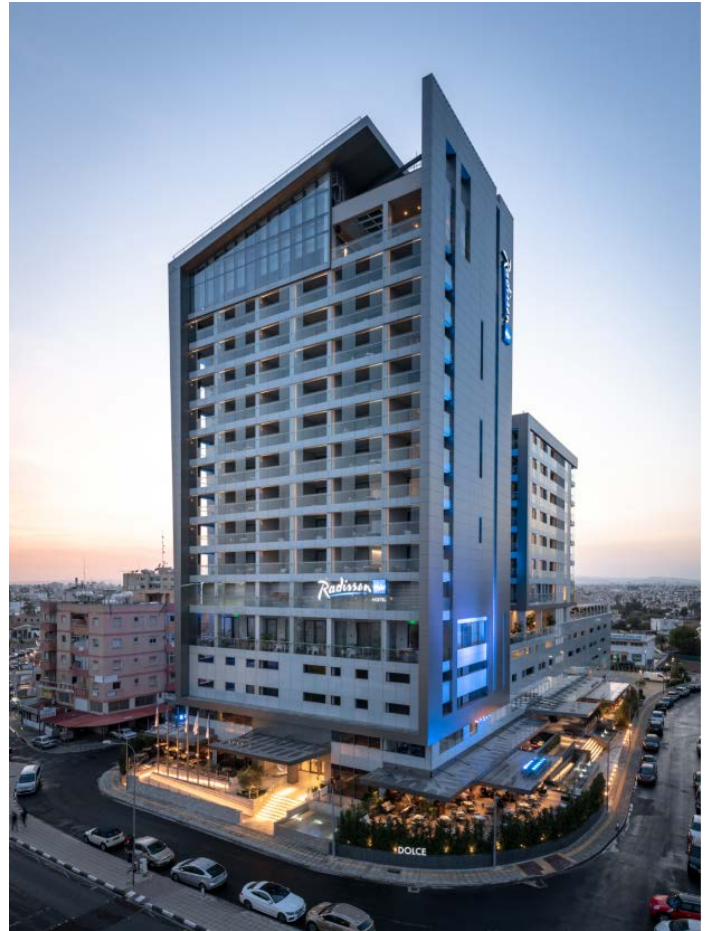
Waterproofing: The surface waterproofing of the potable water tanks was performed using the 1-component, cementitious, waterproofing mortar **Sikalastic®-1K**. **Sikalastic®-1K** is a waterproofing mortar with exceptional crack bridging capabilities. It can be applied by brush or spatula and features very good characteristics regarding application on vertical substrates, high resistance against sag flow, which facilitate on a whole the application procedure. The product carries CE & Declaration of Performance, while it is certified for potable water contact.

For the water penetrating points, the rapid setting waterproofing mortar **Sika MonoTop®-180 Water Plug** was used. **Sika MonoTop®-180 Water Plug** can seal penetrations within 1 minute, even under negative pressures.

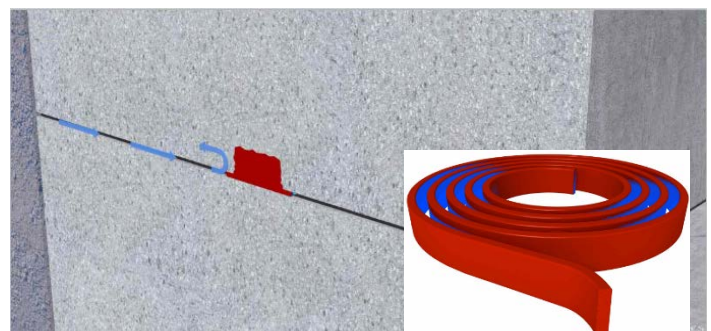


The 1-component polyurethane joint sealant **Sikaflex®-11 FC+** was used to seal perimeter and construction joints. **Sikaflex®-11 FC+** features excellent mechanical properties and resistance to aging (weathering).

On façade surface where composite panels were applied, the 1-component bitumen emulsion **Igolatex®** was used for waterproofing.



Joint sealing & waterproofing: At critical points where concrete pipes were penetrating, the waterproofing profiles **SikaSwell®** were used. **SikaSwell®** products include polyurethane-based sealants and pre-formed acrylic base profiles, which are placed at the construction joints prior to concrete casting. Due to the nature of the products themselves, they swell in the presence of water and block gaps and pores - even cracks!





For sealing joints in sanitary ware, the 1-component silicone sealant **Sika® Sanisil®** was used. **Sika® Sanisil®** features long-term resistance against fungi and algae growth.

Anchoring & repairs: For high volume casting & grouting, the 1-component, pourable, cementitious mortars of the **SikaGrout®** series were used. **SikaGrout®** grouts are CE marked & carry a Declaration of Performance according to EN 1504-6 as anchoring products.

In applications where chemical anchors were required, **Sika AnchorFix®** products were used. **Sika AnchorFix®** chemical anchors have high load capacity, ETA approval for anchoring, excellent adhesion to the substrate and do not sag, even in overhead applications.

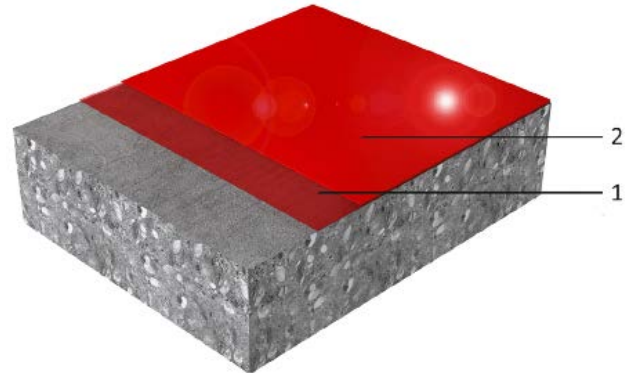


Repairs in concrete elements were performed using the 1-component cementitious repair mortar **SikaRep®-300 Classic**.



Flooring of the underground parking area: For the main area of the 8.500 m² underground parking area, **Sikafloor® MultiDur ES-24** system was used. **Sikafloor® MultiDur ES-24** is a smooth, coloured, self-levelling, rigid epoxy flooring system, featuring good chemical and mechanical strength, is easy to apply and creates a gloss, waterproof final surface. System comprises of the 2-component epoxy primer **Sikafloor®-161** and the final self-levelling resin **Sikafloor®-263 SL**.

Sikafloor® MultiDur ES-24 system configuration



1. Primer	Sikafloor®-161
2. Wear surface	Sikafloor®-263 SL

For auxiliary areas the **Sikafloor® MultiDur ES-14** epoxy resin coating system was applied. The system consists of the 2-component **Sikafloor®-161** epoxy primer and the final layer of **Sikafloor®-264** epoxy coating.

Both final-coating system resins are CE-marked and carry special certificates for outgassing, particle emission and biological resistance.



Stripings were formed using **Sikafloor®-264** coating in various RAL colour shades.

PROJECT PARTICIPANTS:

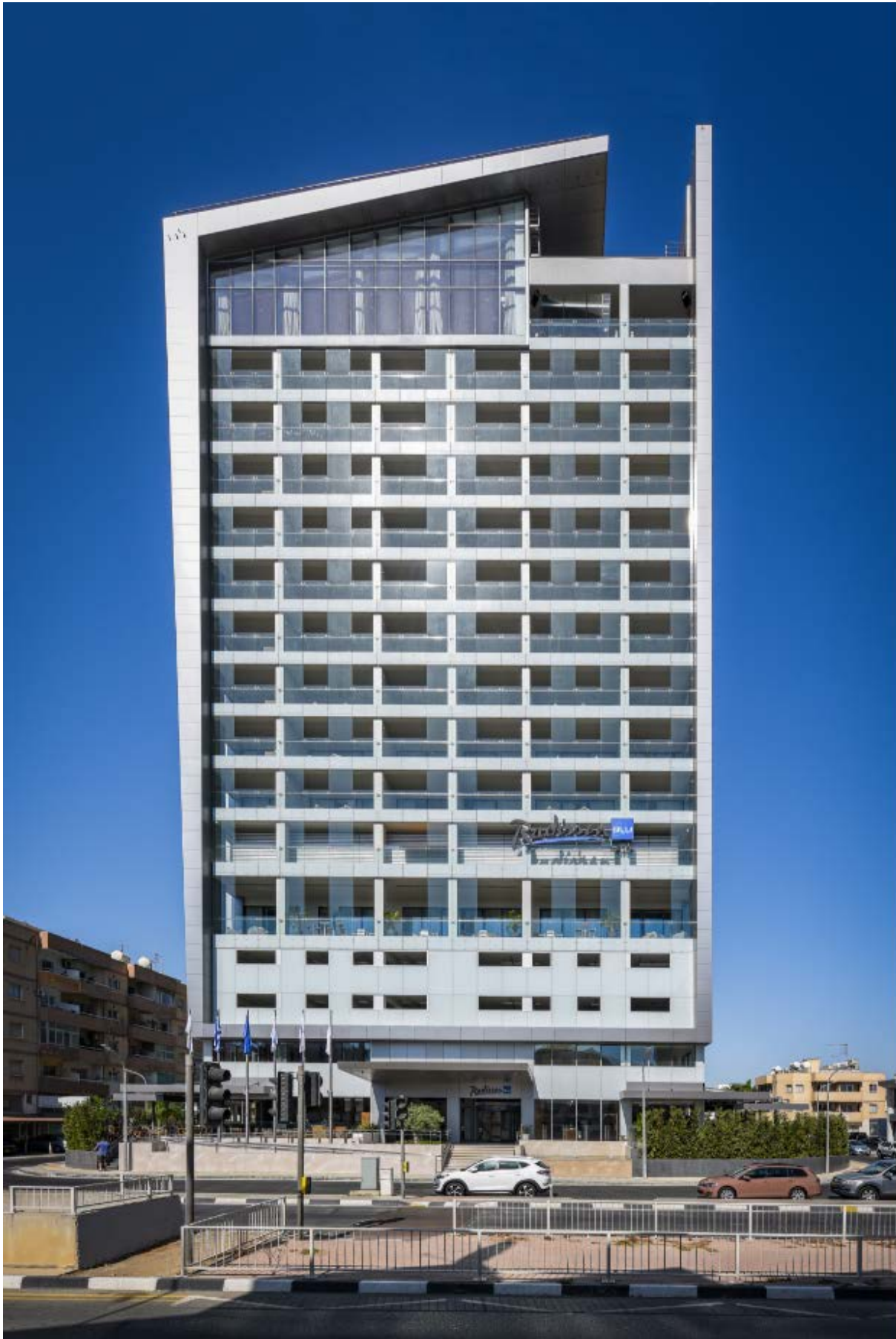
Owner: **Quality Group**

Architectural design: **Panayides- Spinazzola Architects**

Contractor: **Xenis Toumazou & Sons Constructions Ltd**

Commercial distributor: **Domochemica Ltd**





Our most recent General Sales Terms shall apply.
Please consult the most recent Product Data Sheets prior to any use and processing.



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