



SIKA AT WORK

Casa Cook Hotel, Chania, Crete

Roof waterproofing: Sika® BituSeal T – 660 MG (-20 °C) HR

Waterproofing: Sikalastic®-1K

Repairs: SikaRep®-300 Classic

BUILDING TRUST



CASA COOK HOTEL, CHANIA, CRETE



PROJECT DESCRIPTION

Casa Cook Chania is a brand new hotel in Chania, Crete and the first boutique, lifestyle hotel of Thomas Cook hotel groups, that is family-oriented. The resort, which resembles a small village and is situated on a hill overlooking the Cretan coast, has been built based on the design features of the Casa Cook brand, while perfectly adapting to the aesthetics of its location, the outskirts of the historic, seaside town of Chania. The bungalows of the hotel made of wrought concrete, wood and reddish natural stone from Crete, create an earthy, relaxed and fully harmonious coexistence with the scenery. Many rooms have shared or private swimming pools alongside the main pool, while the restaurant and bar resemble the atmosphere of a tropical beach club, with the kitchen open to the public all day long, where guests can enjoy local delicacies.

The 104-room hotel features a groundbreaking approach, specially designed for children, based on small explorers, balancing quality, family time with activities and educational play.

Based on the Greek idea of "company", this is a place not only for tourism, but also for memories, where the traveler can be fascinated by the culture and character of Cretan traditions.

PROJECT DEMANDS

The unique aesthetics and design of bungalows required the use of systems that harmonized with each other and with the landscape. The roof of all the bungalows had to be waterproofed with a high quality and long-term efficiency system, as the exposure conditions and the stresses of the surface of the bungalows are particularly intense in the island environment of Greece. The roof waterproofing system should therefore have a high resistance to aging, as any failure or requirement for regular maintenance / restoration entails enormous operating costs. The total area of the roof that had to be waterproofed was about 6,000m².

In addition, a system of waterproofing the surface of underground areas, swimming pools, bathrooms and outdoors was required.

Furthermore, the use of repair mortars was required to ensure the absolute geometric design of the structures and the shaping of edges and shapes with absolute precision.



SIKA SOLUTION

For each requirement, a Sika product system was proposed and implemented. Sika materials combined optimum efficiency with aesthetics that harmoniously embodied architectural conception. More specifically:

Roof waterproofing: The roof waterproofing of all the hotel buildings was realized using **Sika® BituSeal T – 660 MG (-20 °C) HR** bituminous membrane. **Sika® BituSeal T – 660 MG (-20 °C) HR** is an SBS (bituminous elastomer) torch applied membrane, reinforced with non-woven polyester reinforcement, with the top side covered with a chip and the underside covered with film polyethylene (PE) for ease of installation.

The 1-component **Sika® Igoflex®-P 01 S** bitumen primer was applied onto the appropriately prepared substrate. **Sika® Igoflex®-P 01 S** is applied by brush, roller or spray and features very good penetration into cementitious substrates.



It was then followed by application of **Sika® BituSeal T – 660 MG (-20 °C) HR** bituminous membrane using torch.



Sika® BituSeal T – 660 MG (-20 °C) HR features high resistance to aging, good tensile strength and elongation, high resistance to water vapor permeability, dimensional stability (reinforced with non-woven polyester reinforcement weighing 160gr/m²) and flexibility in low temperatures. It is extremely resistant to weathering and hence long-term durable, which is imperative due to the location and use of building structures. **Sika® BituSeal T – 660 MG (-20 °C) HR** is CE marked and carries a Declaration of Performance according to EN 13707.



Waterproofing of basements, surfaces in swimming pools,

bathrooms & outdoors:

Waterproofing of these surfaces was performed using the 1-component cementitious mortar **Sikalastic®-1K** with crack bridging properties. **Sikalastic®-1K** is a solution for flexible sealing and protection of reinforced concrete structures including tanks, reservoirs, piping, e.t.c.



Sikalastic®-1K combines the advantages of flexible waterproofing and protection of reinforced concrete structures including tanks, reservoirs, piping, etc. as it is CE marked and a Declaration of Performance according to EN 1504-2. It is also suitable for waterproofing in bathrooms, showers, terraces, balconies, swimming pools, bathrooms before laying ceramic tiles and is additionally certified according to EN 14891. It exhibits excellent resistance to negative pressures and its adaptable consistency offers the advantage of brush application, spatula or spraying.

Repair & rehabilitation of reinforced concrete elements: During the construction of a hotel complex, the use of repair materials is imperative and their applications vary. Thus, from the case of sealing aperture holes during demoulding of concrete elements, up to the reforming of edges and concrete surfaces the repair mortar **SikaRep®-300 Classic** was used. **SikaRep®-300 Classic** is a 1-component, ready-to-use, thixotropic, fiber-reinforced repair mortar for medium-thickness structural repairs, Class R3 according to EN 1504-3 (carries CE-mark and Declaration of Performance). It features good adhesion to most building materials (concrete, stone, steel), good dimensional stability and user-friendly smoothing characteristics.





PROJECT PARTICIPANTS:

Owner: **Thomas Cook Group**
 Application contractor: **Gavriil N. Syrianoglou**
 Architectural concept and Interior design: **Lambs and Lions**
 Architectural design and master planning: **K-studio in collaboration with Lambs and Lions**
 Curation, Interior styling: **Annabell Kutucu in collaboration with Lambs and Lions**

COLLABORATORS:

Landscaping: **FYTRON Landscapes**
 Architectural lighting: **Lighting + Architecture Studio**

Photography: **Georg Roske, Ana Santl**
 Renders: **Fat Tony Studios**
 On- & Offline channels:
 Website: **www.casacook.com**
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