



SIKA AT WORK

5* Porto Platanias Beach Luxury Selection Resort, Crete

- Thermal insulation of building envelope: Sika ThermoCoat® system
- Waterproofing: Sikalastic®-1K
- Tile bonding & grouting: SikaCeram®
- Roof waterproofing: Sikalastic®-612

5* PORTO PLATANIAS BEACH LUXURY SELECTION RESORT, CRETE



PROJECT DESCRIPTION

The 5 * seaside Porto Platanias Beach Luxury Selection Resort is located in Platanias, 10km west of Chania in Crete.

The hotel was completely renovated in 2019 and redesigned as a luxurious resort with elegant rooms and well cared surroundings. The 93 hotel rooms are of various types, such as double rooms, maisonettes, family rooms, suites and suites with a communal or private pool. All rooms have a balcony or terrace with sea, pool or garden views and access to the central, heated communal pool.

The 5* Porto Platanias Beach Luxury Collection features a well-equipped gym and a game room. With a family-friendly approach, children can have fun in the 2 smaller swimming pools and the playground. The spa center offers 2 treatment rooms, a Turkish steam room and a fitness center. At the hotel's restaurant, pool bar and lobby bar, guests can enjoy delicious Cretan cuisine and drinks.

PROJECT DEMANDS

Renovating a hotel unit is - by nature- a complicated and demanding process. The new design perspective imposes creativity and imagination, but also a radical overhaul of the unit's functionality, geared towards comfort, aesthetics, usability, as well as service life and maintenance requirements. Overall, the project budget must be combined with aesthetic considerations and long-term functionality.

In order to renovate radically a hotel unit and transform it into a luxurious, 93 room complex, a multitude of products were required for various construction needs that arose when practicing the design concept.

One of the most important requirements was the thermal insulation of the building envelope, for which an external thermal insulation system was selected. Also systems were required for tile bonding of various tile types, indoor and outdoor, as well as for waterproofing and roofing.

SIKA SOLUTION

For each requirement, a Sika product or system was proposed and implemented. Sika products combine optimum efficiency with aesthetics that harmoniously embody the architectural conception. More specifically:

External Thermal Insulation System (ETICS): Adoption and application of the correct thermal insulation system for a building can lead to energy savings of 30% or more in what relates to the consumption of energy for heating or cooling via minimizing construction losses. In this sense, it also reduces CO₂ emissions to the atmosphere and the phenomenon of the urban islet. Therefore the correct approach of the thermal insulation system implies energy savings, cost savings, improved living conditions & respect for the environment.



For the external thermal insulation of the whole building structure, the **Sika ThermoCoat® External Thermal Insulation Composite System** was applied. **Sika ThermoCoat®** is a complete system, consisting of high-quality products, which have been tested for their compatibility and durability. **Sika ThermoCoat®** system fulfills the specifications of the European Organization for Technical Approvals - EOTA. It has been tested according to the guidelines of ETAG 004 (European Technical Approval Guideline), obtaining European Certification (European Technical Approval - ETA).



The system comprises of:

Sika ThermoCoat® Easy: High performance, 1-comp. cementitious fiber reinforced concrete for bonding & rendering

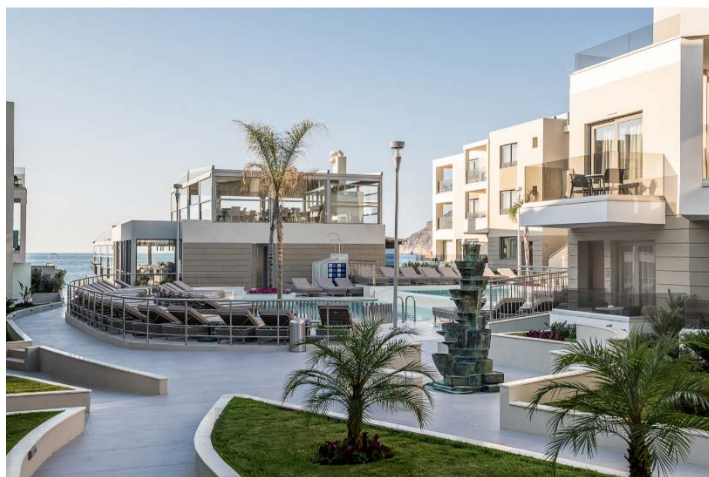
Sika ThermoCoat®-2 HS: EPS boards, white or graphite featuring high thermal insulation properties

Sika ThermoCoat®-4 HS: Alkali resistant glass fiber net for reinforcement of mortar base coat

Sika ThermoCoat®-5 HS Primer: Primer for adhesion promotion of final render

Sika ThermoCoat®-5 HS: Coloured, acrylic, water-repellent final protective and decorative render, available in 3 granulometries

Sika ThermoCoat® Accessories: Range of auxiliary products for the application of the system



Waterproofing, bonding and tile grouting in pools:

In order to create a long-term durable swimming pool construction and since tiles were selected for the final surface, **Sika's Waterproof Tile Adhesive System** was adopted. **Sika's Waterproof Tile Adhesive System** combines flexible, cement-based Sikalastic® mortars with C2 Class tile adhesives. Waterproofing was performed using the 1-component, flexible, cementitious, waterproofing mortar with crack bridging abilities **Sikalastic®-1K**. **Sikalastic®-1K** carries CE Mark and Declaration of Performance as a protective coating for concrete (according to EN 1504-2) and a special certification as water impermeable product, for all external installations and swimming pools beneath ceramic tiling (CMO1P according to EN 14891). The tiles were bonded using the 1-component cementitious tile adhesive, C2TE51 Class **SikaCeram®-243 UltraFlex**. **SikaCeram®-243 UltraFlex** is a high performance tile adhesive, elastic and thixotropic, featuring extended workability time and powerful adhesion to substrate.



Pool joint grouting was performed using **SikaCeram® EpoxyGrout**. **SikaCeram® EpoxyGrout** is a 2-component epoxy grout that contains quartz aggregates and special additives, forming a smooth finish. It is ideal for surfaces that need to be kept totally clean. It features very good chemical resistance (e.g. pool cleaners and disinfectants) and high hardness.



Waterproofing, bonding and tile grouting in external surfaces, bathrooms and large size tiles:

Sika's Waterproof Tile Adhesive System was adopted and for tiling all outdoor, public and private surfaces, and additionally for bathrooms. Both surfaces are overwhelmed by almost permanent contact with wet media, frequent and intense washing, constant humidity conditions and therefore there was a requirement for application of a long-term durability system. Therefore in verandas, balconies and bathrooms the 1-component, flexible, cementitious waterproofing mortar **Sikalastic®-1K** was applied, while tile bonding was performed using the 1-component cementitious tile adhesive, Class C2TE51, **SikaCeram®-241 Flex**. **SikaCeram®-241 Flex** is a high performance tile adhesive, elastic and thixotropic, featuring extended workability time and strong adhesion to substrate.



Tile grouting of all floors was performed using the **SikaCeram® CleanGrout**. **SikaCeram® CleanGrout** is a high performance cementitious tile grout, comprising from high strength cement, selected quartz / silica aggregates and special additives. **SikaCeram® CleanGrout's** advanced pigment technology allows the color to remain bright and luminous over time, while the grout has special certifications that prevents the inhibition of mold and bacterial growth on its surface.

Waterproofing, bonding and tile grouting in internal surfaces:

For tile bonding in all internal surfaces (rooms, suites, restaurant, lobby) the 1-component, cementitious tile adhesive, Class C2TE **SikaCeram®-203 SuperBond** was used. **SikaCeram®-203 SuperBond** is an enhanced performance tile adhesive, containing selected aggregates, special polymers and additives, featuring reduced slip and extended workability.



Wall smoothing prior to final painting:

On the surfaces of all interior walls of the hotel unit, the 1-component fine-grained smoothing putty **SikaWall®-103 Parete** was applied. **SikaWall®-103 Parete** is highly white, easy to apply putty, offering antifungal protection.



The finally smoothed wall surface after the application of **SikaWall®-103 Parete**, becomes completely smooth, facilitating its subsequent painting.

Roof waterproofing:

The construction's roof waterproofing should exhibit high resistance to UV radiation and atmospheric chemicals – common stresses in Greek islands. Moreover, due to the aesthetics of the construction itself and the requirement of its harmonization with the surrounding area, the final shade of the roof surface had to be extra-white. Therefore, roof waterproofing was performed using the 1-component liquid, **MTC®** polyurethane membrane **Sikalastic®-612**.

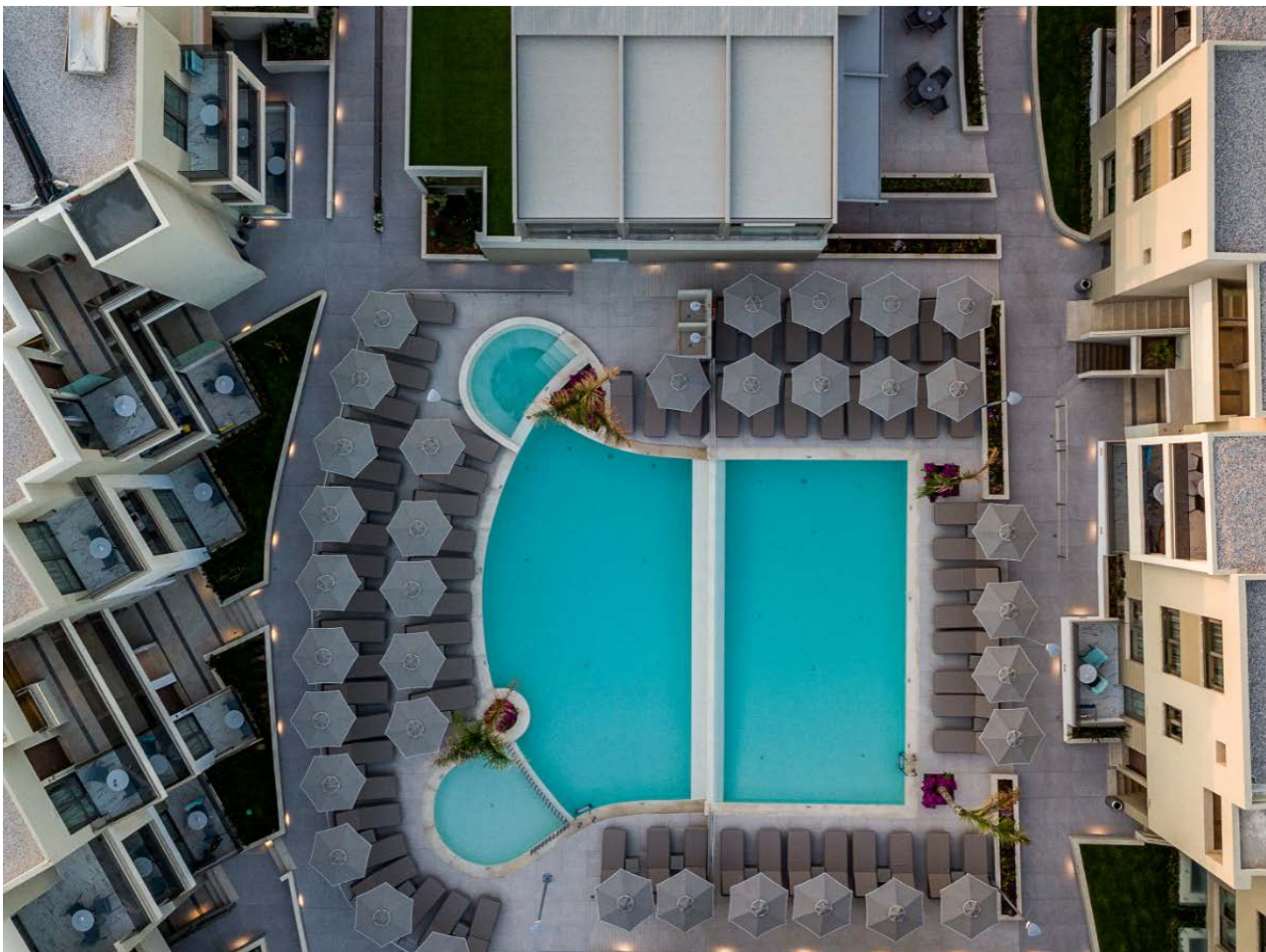
Sikalastic®-612 is a 1-component, cold-applied, polyurethane based membrane, moisture-activated for curing triggering, but unaffected from humidity once curing has been initiated. It cures forming a durable, seamless, waterproof membrane for exposed roof surfaces. Its top features include being water vapor permeable, allowing the substrate to breathe, high elasticity and retaining its flexibility even at low temperatures. **Sikalastic®-612** can be re-applied with an additional freshening coating, as no stripping of the former layer is required.



PROJECT PARTICIPANTS:

Owner: **KAPAKIS Hotel Companies**

Trading partner: **EasyBuild IKE**



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