



SIKA AT WORK

Parilio Hotel, Kolympithres Naoussa, Paros

Sika systems from foundation to roof

BUILDING TRUST



PARĪLIO HOTEL, KOLYMPITHRES NAOUSA, PAROS



PROJECT DESCRIPTION

Parilio Hotel in Paros, with 33 suites, opened in July 2019. It is located on the northern coast of the island and is characterized by the timeless simplicity of Paros. The design of the hotel was inspired by the island's unique architecture and topology, with its gently rolling landscape, pristine beaches, mesmerizing villages, and ancient treasures. Elevating this allure for today's traveler, the sublime 33-suite Parilio Hotel echoes the island's distinctive block-white architecture style while crafting understated luxury from natural stone materials and a soothing color palette comprised of neutral white, grays, ochre, ivory, and sienna.

Located on Naoussa Bay—along the island's northeastern coast between stunning Kolympithres Beach and the jewel town of Naoussa—the property presents contemporary Greek design alongside objets d'art from leading European designers. Characterized by secluded, pine-fringed coves and white-washed fishing villages, Paros is a place where unspoiled natural beauty and the slowed rhythms of Cycladic life prevails. A gateway to the real Cyclades, the island embodies an authentic Greek experience. A place of peace and sublime beauty, Parilio's sense of sanctuary makes it an ideal haven for the creative-minded single, but also for families and couples looking to bond with both nature and each other.

Parilio Hotel is a member of the leading Design Hotels™ Group.

PROJECT DEMANDS

Parilio's strong holistic look and feel make for a gloriously poetic retreat in full harmony with the surrounding sea and natural rocks. The Cycladic inspiration and influences are reflected throughout Parilio, the name of which is derived from 'Paros' and the Greek word for the sun 'ilios'. Distinctive structural features such as arches, concrete columns, and thick masonry are representative of traditional building techniques and help to create a sense of sanctuary, resulting in a space that is both cathartic and elemental.

The design of Parilio was inspired by the surrounding sea and rocky landscape when converting a 55-room hotel from the 1980s to a light-filled contemporary 33-suite hotel.

The 33-suite retreat is characterized by the island's distinctive architecture and its interiors are defined by a soothing, tonal color palette and natural materials. As in many new Greek boutique hotels, the decor is a mix of neutral white, grays, ochre, ivory, and sienna. The property also associates contemporary Greek design alongside objets d'art from leading European designers.

All in all, the construction required products for repair, rehabilitation, protection, waterproofing and various needs that appeared during the implementation of the design concept.

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:

Main & Sun suite pool waterproofing, rendering, tiling & grouting:

As a quick and effective method for waterproofing the outdoor pool, **Sika® Watertight Concrete** has been used. **Sika® Watertight Concrete** offers *endogenous* waterproofing over the entire mass of concrete and not only on the surface in the form of coating. **Sika® Watertight Concrete** is a mix that has been designed following strict rules in terms of maximum water and minimum cement content and has incorporated superplasticizer and special waterproofing admixtures.

Its main advantages include:

- The fact that it does not require space for perimeter sealing work (thus maximizing the buildable space and reducing the cost of excavation and disposal)
- Not requiring additional waterproofing mortars, bituminous coatings or membranes
- Reduction of required work and construction costs
- Faster completion of construction
- Protection of concrete endogenously (throughout its mass) against penetration of water and harmful components

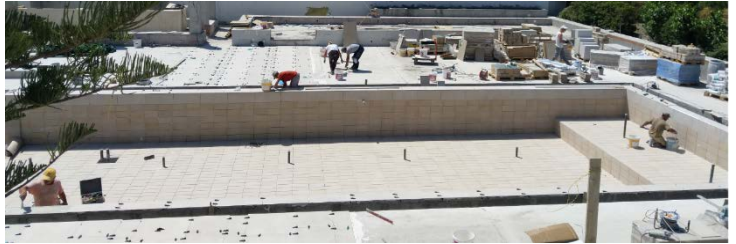
The use of a special crystallizing waterproofing admixture offers the maximum level of endogenous watertightness. So, in the concrete mix, the special crystallization waterproofing admixture **Sika® WT-200 P** was incorporated. **Sika® WT-200 P** is a combinatorial product: it is a self-healing admixture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



Render mixes for the pool were prepared using **Sika ViscoBond®** bonding agent. **Sika ViscoBond®** is a 4-to-1 product, combining unique properties to mixes, enhancing workability and ensuring increased tensile, flexural, bond strengths and adhesion.



The next steps – waterproofing and tile bonding – for the pool construction were performed using **Sika's Waterproof Tile Adhesive System**, which 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, C2TES1 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.



For the swimming pool overflow canal, the 2-component cementitious waterproofing & protective final coating **SikaTop®-129 Sunshine** was used. **SikaTop®-129 Sunshine** is used as a waterproofing coating suitable for direct contact with swimming pool water, improving durability of hydraulic structures in general. Its splendid over-white shade makes it an ideal selection as a final swimming pool coating. On this first mortar layer, the **Sika® FiberNet** alkali-resistant glass fiber mesh was applied. **Sika® FiberNet** glass mesh was then fully embedded and coated by applying a second layer of **SikaTop®-129 Sunshine** mortar. As the mortar features excellent application properties on vertical surfaces (even on overhead surfaces), the same procedure was followed for all the vertical elements and the particular details of the swimming pool overflow canal.



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®-1/3 HS: 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

Internal wall rendering: Since the aesthetics of the interior spaces were defined by a soothing, tonal color palette and natural materials, **Sika ThermoCoat®** crack protection system was applied for the internal surfaces of the building structure, evaluated as forming the most suitable texture.



The system comprises of the known **Sika ThermoCoat®** products (no thermal insulation boards). It can be applied on various substrates, even on gypsum boards, using Sika® Primer-11 W+ acrylic primer for adhesion improvement and enhancement of overall long-term performance.



Repair, protection, anchoring & grouting: Concrete repairs were carried out with 1-component cementitious repair mortars. In order to increase adhesion and anticorrosive protection the bonding primer & reinforcement corrosion protection **Sika MonoTop®-910 N / SikaTop® Armatec®-110 EpoCem®** was used in the form of slurry. **Sika MonoTop®-627 HP & SikaRep®-300 Classic** were used. **Sika MonoTop®-627 HP** was used for high thickness applications, while **SikaRep®-300 Classic** was used for all conventional applications. In cases of pourable repair applications, **Sika MonoTop®-634HP** was used. **Sika** repair mortars are certified in accordance with the European Standard EN 1504 and feature exceptional application characteristics to restore original geometry of elements.

Renders for general applications were prepared incorporating the emulsion improver **SikaLatex® Max** in the mix. **SikaLatex® Max** improves adhesion and makes mortars plastic and easily applicable.

Anchoring applications were carried out using **Sika AnchorFix®**-special chemical anchoring products. **Sikadur®-31 EF** was used to seal spacers after demoulding of concrete elements.

In addition, the impregnation inhibitor **Sika® FerroGard-903 Plus** was applied to the concrete of the construction. **Sika® FerroGard®-903 Plus** has dual function, both by inhibiting the onset of corrosion and by reducing the corrosion rate of the steel reinforcement. Anti-corrosion protection using **Sika® FerroGard®-903 Plus** results in extended lifetime and operation for up to 15 years.

Floor tile grouting & protection: 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.



On the finally configured surface the protective impregnation **Sikagard®-790 All-in-One Protect** was applied. **Sikagard®-790 All-in-One Protect** is a protective coating designed to protect all types of mineral substrates against the penetration of water based liquids and oils and to prevent or significantly reduce staining. **Sikagard®-790 All-in-One Protect** does not form a film on the surface and therefore it is invisible.

PROJECT PARTICIPANTS:

Owner: **KANAVA S.A.**

Specification/design: **Interior Design Laboratorium**

Project Manager: **Stelios Bardosas**

Waterproofing:

In cases of requirements for waterproofing underground concrete surfaces, 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).

Roofing:

The roof waterproofing system on the construction should exhibit high resistance to UV radiation and atmospheric chemicals – common stresses in Cycladic islands. Moreover, due to the original architecture of the Cycladic Island, as well as the aesthetics of the construction itself and the requirement of its harmonization with the surrounding area, the final shade of the horizontal surface of the roof had to be extra-white to match the aesthetics of the houses in the Aegean Sea. Therefore, roof waterproofing was performed using **MTC®** polyurethane membrane system **Sikalastic®**. The system comprises of a primer, liquid applied, **MTC®** polyurethane base coat, reinforcement and final, UV resistant coating.

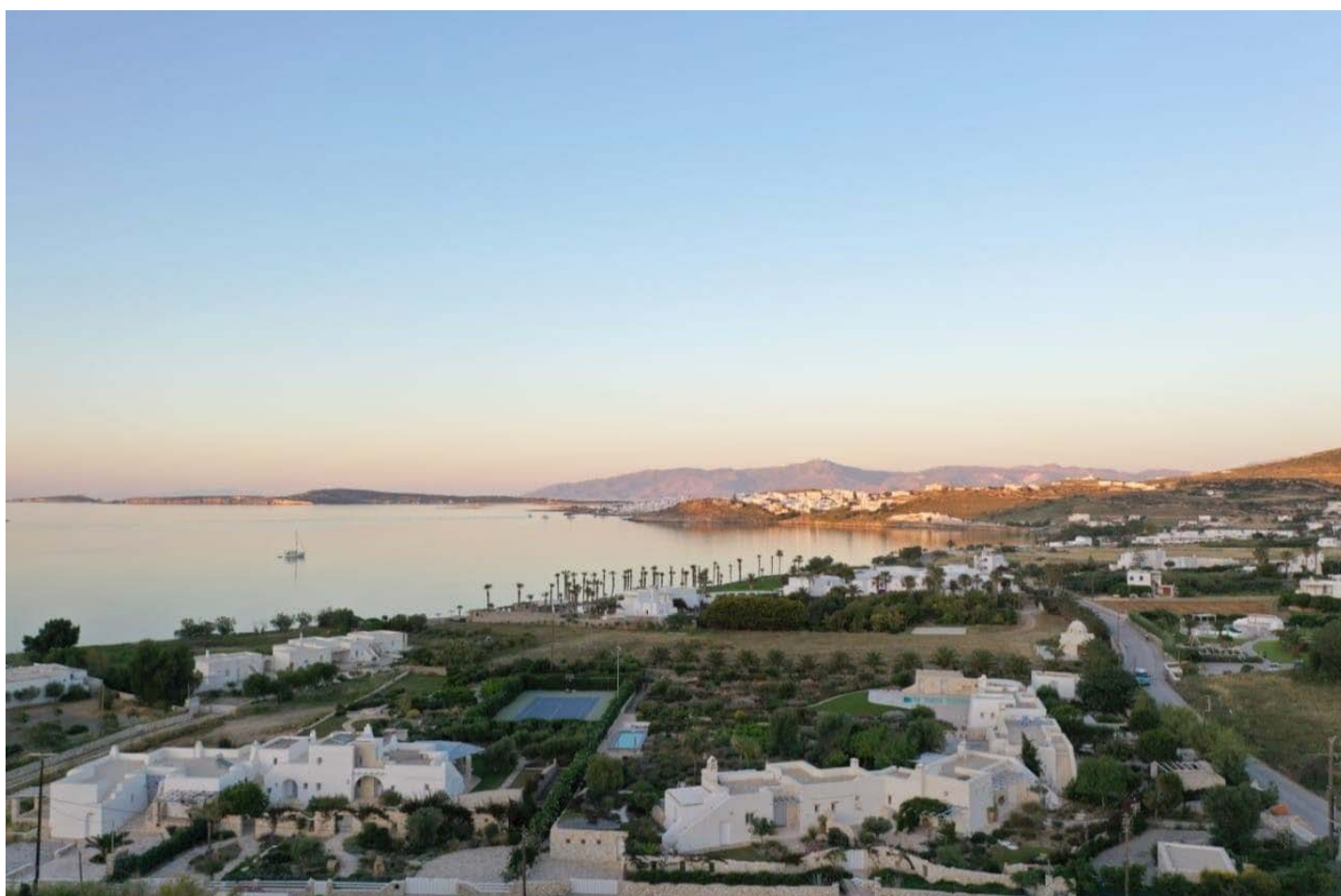


Initially the surface was prepared by removing loose segments and applying the polyurea / polyurethane based primer **Sika® Bonding Primer**. Then the application of the base coat followed, using the 1-component, **MTC®** polyurethane membrane **Sikalastic®-612**. On the base coat, the final, reflective coating **Sikalastic®-570 TC** was applied. **Sikalastic®-570 TC** is resistant against yellowing and UV radiation, while features high reflectivity properties (RAL 9016 – extra-white) and remains permanently elastic and offers crack bridging possibility.

Joint sealing:

Joint sealing was performed using the 1-part, multipurpose adhesive and sealant **Sikaflex®-111 Stick & Seal**, which bonds well to a wide variety of substrates without surface pre-treatment.

In cases of very large joints, with irregular movements and in order to increase water tightness of joint, the special system **Sikadur-Combiflex® SG** was used. **Sikadur-Combiflex® SG system** is a high performance joint and crack sealing system for construction joints, expansion (movement) joints and connection joints or cracks. The system allows variable and high levels of movement in one or more directions, whilst maintaining a high quality watertight seal.



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