

SIKA AT WORK

Nana Princess Resort, Hersonissos, Crete

Sika® Solutions from the foundation to the roof

BUILDING TRUST



NANA PRINCESS RESORT, HERSONISSOS, CRETE



PROJECT DESCRIPTION

The 112 luxury rooms, suites and villas Nana Princess Resort is a new addition to the Karatzis Group of Companies, inspired by the vision of bringing a superior level of hospitality to the island of Crete. The resort is situated in Hersonissos, in a paradise area and had a total cost of 16 million euros.

Discerning guests seeking a luxury stay in one of Europe's finest locations can enjoy all the comforts of a luxurious hotel that offers the most up-to-date wellness and spa facilities in superb surroundings. The Nana Princess Resort brings a truly outstanding new hospitality experience to Greece and the magnificent island of Crete with its plethora of lavish 6* amenities and seamless tailor-made services. Guests can choose from amongst a sumptuous collection of 112 suites and villas, each one uniquely designed in perfect harmony with the natural environment, while meeting the high expectations of today's modern traveller. Almost all accommodations boast an inviting private pool and spacious outdoor sun area where guests can sit back and take in the breathtaking sea views in uninterrupted privacy. The resort is also equipped with dining facilities with 3 restaurants, common pool, spa, wellness and gym center facilities and private beach.

Every visitor to Nana Princess is received and treated like royalty and the idea that all those who step through our doors are VIPs is the underlying concept of our hospitality philosophy. The design and implementation of the construction took place based on this core concept.

PROJECT DEMANDS

A 6* resort that targets in providing the highest level of services in a purely tourist area that attracts visitors from all over the world requires top quality products and systems, literally from foundation to the roof. Waterproofing of basements and pools, roofing systems, repair materials, flooring products are indicative basic categories of applications for which the optimal product system had to be used in order to comply with the requirements of the specification.



SIKA SOLUTIONS FOR VARIOUS APPLICATION TYPES

In a hotel complex of this range, located on a seaside geographic location, there were extensive needs for waterproofing of underground areas and swimming pools - indoor and outdoor.

Pool, Spa, external verandas waterproofing: For the majority of the pools, mosaic tiles were selected as a final surface. Beneath the tiles, the surface had to be waterproofed. The 1-component, cementitious, flexible, waterproofing mortar **Sikalastic®-1K** was used.



Sikalastic®-1K is a 1-component, cementitious, waterproofing mortar, with exceptional crack bridging abilities. It is CE certified and carries Declaration of Performance as concrete protection mortar and as waterproofing mortar for use beneath tiles. **Sikalastic®-1K** was also used for waterproofing beneath tiles for all external verandas and patios.



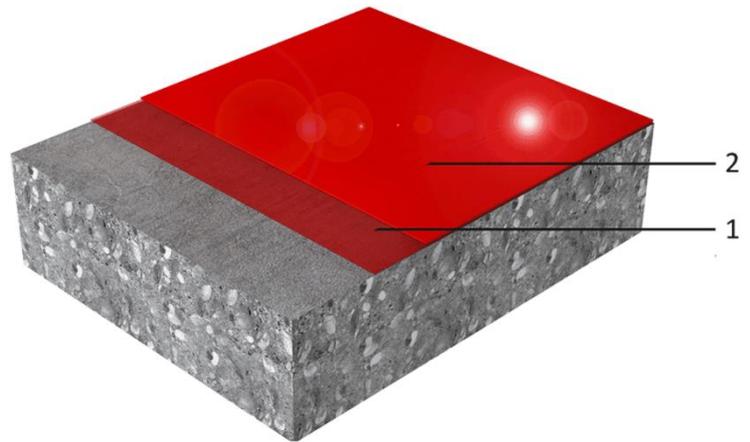
Underground wall waterproofing: Waterproofing of all underground concrete basement walls was performed with the 1-component, cementitious, waterproofing mortar **Sika® MonoSeal-101 H**. **Sika® MonoSeal-101 H** offers a cost-effective solution for waterproofing, as it offers simple and easy application by brush. The product offers high resistance against positive and negative pressure and is CE certified as a concrete protection mortar.



External wall waterproofing: All external above ground walls were waterproofed using the 2-component, cementitious, semi-flexible waterproofing mortar **SikaTop® Seal-107 FL-X**. **SikaTop® Seal-107 FL-X** protects concrete against water penetration, but also against carbonation, while allowing water vapour transmission. The product is easy to apply by brush, facilitating fast application. It is CE certified and carries a Declaration of Performance as concrete protection mortar.



Car park flooring: For the car park of the hotel, the epoxy flooring system **Sikafloor® MultiDur ES-14** was used. **Sikafloor® MultiDur® ES-14** system exhibits very high resistance against abrasion and wear, is liquid proof, easy to apply and clean and is available in various colour shades.



Coat	Product
1. Primer	Sikafloor®-161
2. Final coating	Sikafloor®-264

The final coating **Sikafloor®-264** has very high chemical and mechanical resistance, carrying also Declaration of Performance according to EN 1504-2 & EN 13813.

Joint sealing & waterproofing: All large sized building joints were waterproofed and sealed with the special system **Sikadur-Combiflex® SG**. **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. **Sikadur-Combiflex® SG system** consists of a modified flexible Polyolefin (FPO) waterproofing tape, with advanced adhesion properties and a special Sikadur® epoxy adhesive.



Concrete element rehabilitation: For all repair works required during the construction process, the 1-component, cementitious, fiber reinforced repair mortar **SikaRep®-300 Classic** was used. The product is suitable for medium thickness, regular concrete structural repairs, meeting the requirements of Class R3 of EN 1504-3 and carrying a Declaration of Performance. The product is easy to handle and work with and exhibits good adhesion to most common building materials.



Roofing: The roof waterproofing of all buildings was designed with green roof, as this method reduces the effect of the thermal urban isle, as well as the total energy costs required to cool the entire building. For the implementation of this design concept on all buildings, the FPO based synthetic membrane **Sikaplan® TB-18** was used. **Sikaplan® TB-18** is a multi-layer roof waterproofing sheet membrane containing stabilizers against UV radiation. It has an inlay of non-woven glass net, offering exception dimensional stability. **Sikaplan® TB-18** is resistant against to root penetration and is certified according to FLL test, carries a Declaration of Performance according to EN 13956 and is designed to be used in all global climatic conditions.



SIKA PRODUCTS IN VOLUME:

Cementitious waterproofing:

- 1-component waterproofing mortar **Sika® Monoseal-101 H**: 65 tn
- 1-component, flexible, waterproofing mortar **Sikalastic®-1k**: 48 tn
- 2-component waterproofing mortar **SikaTop® Seal-107 FL-X**: 6 tn

Joint sealing:

High performance joint sealing **Sikadur-Combiflex® SG system**:

- Sikadur-Combiflex® SG tape**: 1,5 km
- Sikadur®-31 EF epoxy resin**: 1,8 tn

Roofing:

Green roof FPO membrane **Sikaplan® TB-18**: 3.500 m²

Flooring:

- 2-component epoxy primer **Sikafloor®-161**: 1,2 tn
- 2-component epoxy smooth coating **Sikafloor®-264**: 0,6 tn

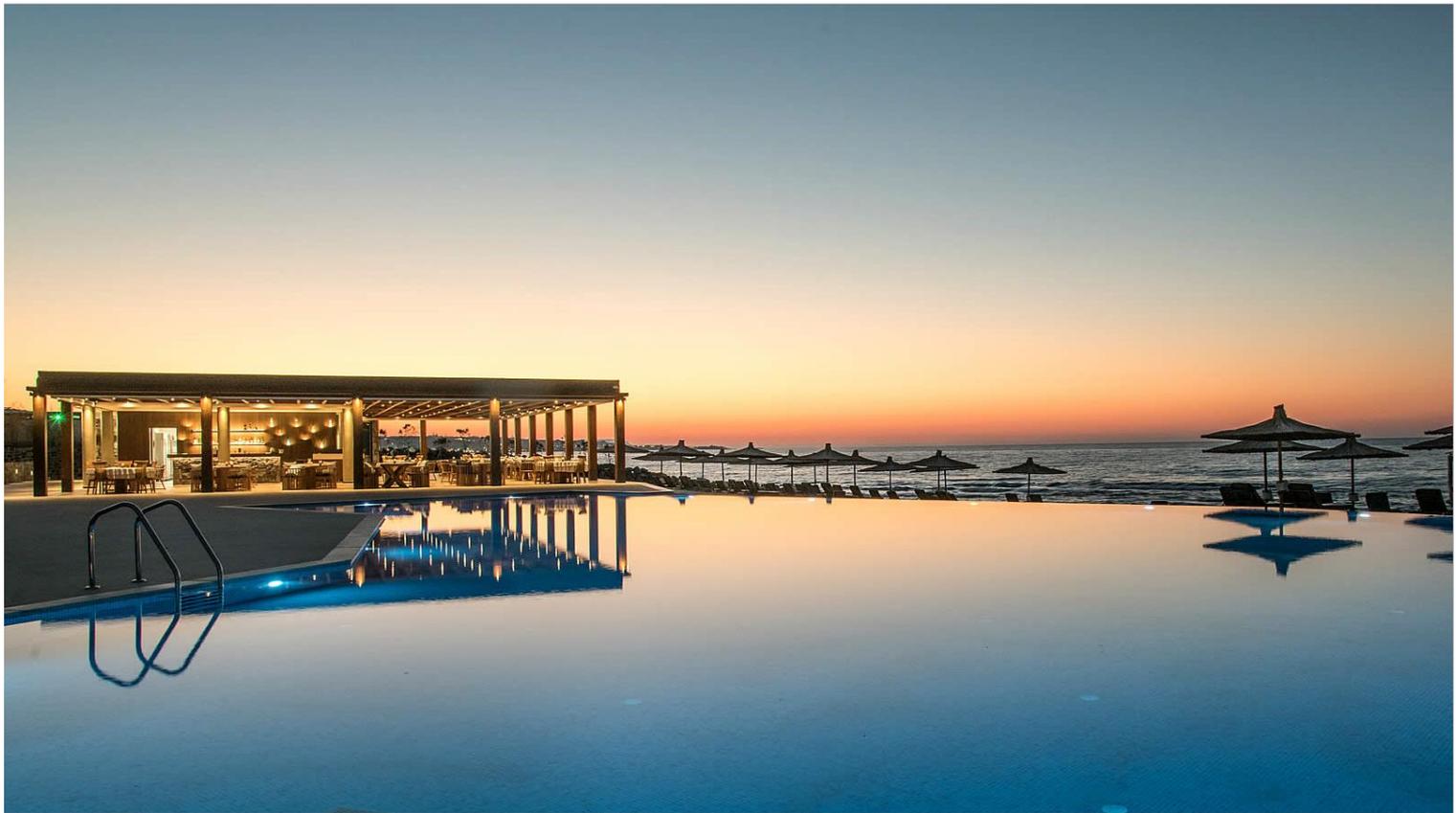
Concrete rehabilitation:

- 1-component cementitious repair mortar **SikaRep®-300 Classic**: 90 tn

PROJECT PARTICIPANTS:

Owner: **Karatzis Group S.A.**

Waterproofing contractor: **ECO Monosis-Boubakis Kostas**



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Please consult the most recent Product Data Sheets prior to any use and processing.

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