



SIKA AT WORK

Repair & protection of Blue Lagoon City
Hotel facade, Kos, Greece

PROTECTION AGAINST CRACKS WITH Sika® ThermoCoat HS system

BUILDING TRUST



REPAIR & PROTECTION OF BLUE LAGOON CITY HOTEL FACADE, KOS, GREECE



PROJECT DESCRIPTION

Blue Lagoon Group is active in the touristic sector, operating 4* & 5* hotels in Kos and Chalkidiki. The recently renovated Blue Lagoon City Hotel in Kos will be the first hotel of the Group that will operate all year round. It includes 133 modern rooms and suites and is located just 5 minutes from the island's port and the central market. It features a restaurant, cocktail and snack bar, meeting room, modern gym, indoor & outdoor heated pool, and spa services.

PROJECT DEMANDS

As the facade of a hotel is probably the basis of the first impression for the visitor, reflecting the aesthetics and dynamic it wants to impress on the guests' consciousness, it was very reasonable that the modernization and renovation of the hotel included the repair of its facade. There was, therefore, a requirement for a total renovation of all facades of the building, using a system of defensive protection on the overall shell of the building. The total area of the building facade that had to be renovated was 6,700m².

SIKA SOLUTION

Sika® ThermoCoat crack protection system has been proposed and implemented for facade renovation. The system consists of materials that are fully compatible:

- **Sika® ThermoCoat Easy** – basic mortar
- **Sika® ThermoCoat-4 HS** – alkali resistant fiber net
- **Sika® ThermoCoat-5 HS Primer** – substrate preparation
- **Sika® ThermoCoat-5 HS** – final paste for rendering



SIKA SOLUTION

On the existing, properly prepared substrate, a base coat of **Sika® ThermoCoat Easy** has been applied in grey colour. **Sika® ThermoCoat Easy** is a ready-to-use, one component, fiber reinforced cementitious mortar, used both as a base coat and as a rendering coat. It exhibits excellent application properties, both during the process of base layer creation as well as during the embedment of the glass fiber net. It features particularly high adhesion to many building materials, as it has high resistance against moisture and temperature variations, the usual environmental conditions that prevail in a seaside place in Greece. **Sika® ThermoCoat Easy** is certified as general-purpose mortar (GP CS-IV W2 according to EN 998-1) for coatings in indoor and outdoor applications.



On the basic layer of **Sika® ThermoCoat Easy** the special, alkali resistant fiber net **Sika® ThermoCoat-4 HS** was embedded. **Sika® ThermoCoat-4 HS** is designed as a reinforcement glass net for the performance of the crack-resistant system. It offers uniform stress distribution over the entire surface of the coating to avoid pointing and cracking, as well as long-term resistance against movements due to temperature fluctuations or shrinkage.



The universal primer **Sika® ThermoCoat-5 HS Primer** was applied to the base coat. It offers deep water repellency in depth, ensures long-term system durability and is available in a wide range of shades for uniform color shade of the final layer.

The final render of the system was the acrylic paste **Sika® ThermoCoat-5 HS**. Its characteristics include an excellent resistance to ultraviolet radiation, while it is breathable, water-repellent and features high elasticity and workability. The paste is available in a wide range of colors and in various granulometries, so as to achieve the desired aesthetic result. Its application is possible also via spraying, ensuring thus speed application and on-time delivery of the project.



SIKA PRODUCTS IN VOLUME:

- **Sika® ThermoCoat Easy** basic mortar: 45 tns
- **Sika® ThermoCoat-4 HS** alkali resistant fiber net: 8.000 m²
- **Sika® ThermoCoat-5 HS Primer**: 1,6 tns
- **Sika® ThermoCoat-5 HS** acrylic paste for rendering: 16 tns

PROJECT PARTICIPANTS:

Owner: **Blue Lagoon Group**
Sika partner: **Chatzichristofis Stamatis Ltd**



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