



SIKA AT WORK

Dreamcatcher Villa, Rethymno, Crete

POOL WATERPROOFING & SURFACE PROTECTION with SikaTop®-129
Sunshine & Sika® Fibernet

BUILDING TRUST



DREAMCATCHER VILLA, RETHYMNO, CRETE



PROJECT DESCRIPTION

Dreamcatcher Villa is located in Atsipopoulo Village, a highly preserved traditional village, just 3Km from the beautiful town of Rethymno with the Venetian citadel of Fortezza, the Venetian harbor and the old town. It is a modern 300m² villa which with its aesthetics manages to combine the breeze of refreshment that the traveler needs, with a sense of intimacy. Wood and stone have been used to decorate the villa, giving it a warm feeling. The villa has a spacious seating area with views to the outdoor pools - adult and children, an outdoor lounge, a dining area and a barbecue area.

PROJECT DEMANDS

The aim of the design of Dreamcatcher Villa was to create a space of relaxation, comfort, luxury and privacy. A construction of this level in one of Greece's most significant tourist destinations, which attracts both domestic and foreign tourists, can only include a swimming pool in its facilities. The villa has 2 swimming pools, for adults and children, with a total area of 184m². Both pools required a waterproofing and protection system, which on one hand should exhibit a high degree of resistance to the severe stresses of the construction itself and the location of the villa (island environment) and on the other hand should harmonize with the style and aesthetics of the space (uniform, white surface, without joints, in full harmony with the design and style of the overall construction).

SIKA SOLUTION

Considering all the above parameters and demands, **SikaTop®-129 Sunshine** cementitious, waterproofing mortar was proposed and selected to form the final surface of the pools, which at the same time offered protection, watertightness and the ability to form a uniform, high strength and resistant final surface. **SikaTop®-129 Sunshine** is a two-component, white, low-modulus, cementitious waterproofing mortar. It consists of a cementitious, polymer modified, containing special granulometry aggregates, selected admixtures and an emulsion that offers flexibility to the final mixture.



APPLICATION PROCESS

Initially, the surface was mechanically prepared, removing cement laitance, forming a suitable quality substrate. After thorough mixing of the pre-weighed components of **SikaTop®-129 Sunshine**, application was performed with a notched spatula. 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. The final finishing/smoothing was performed with a grinder, as soon as the mortar layer began to stiffen.

SikaTop®-129 Sunshine is used:

- As a waterproofing coating suitable for direct contact with swimming pool water
- As a concrete surface protection coating, to improve durability
- For protection of concrete surfaces, aiming to increase their resistivity and resistance
- For waterproofing and protection of hydraulic structures such as basins, tanks, swimming pools, concrete piping
- As a flexible protective coating for reinforced concrete structures, against the effects of de-icing salts, freeze-thaw cycles and carbon dioxide
- For waterproofing and protection of roofs and relatively small pool, weather exposed surrounding areas (subject only to foot traffic).

SikaTop®-129 Sunshine is suitable for:

- Protection against ingress (Principle 1, Method 1.3 of EN 1504-9:2008). It creates a carbon dioxide barrier coating.
- Moisture control (Principle 2, Method 2.3 of EN 1504-9:2008)
- Increasing resistivity (Principle 8, Method 8.3 of EN 1504-9:2008)

PROJECT PARTICIPANTS:

Owner: **CreteVillas4U**

Applicator: **Giorgos Anagnostakis**

<https://www.cretevillas4u.com/en/Crete/Rethymno/Dreamcatcher>





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