



SIKA AT WORK

Waterproofing & protection of external pool, Rethymno, Crete

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

BUILDING TRUST



EXTERNAL POOL WATERPROOFING & PROTECTION, RETHYMNO, CRETE



PROJECT DESCRIPTION

As part of the restoration of an existing 19th-century stone-built residence, its surroundings were designed to include an outdoor pool. The new pool had a total surface area of ~ 25 m² and would be a gem for the restored - now - private holiday home.

PROJECT DEMANDS

As the summer approached, the house's swimming pool had to be constructed during the springtime (optimum temperature, mild climate). The owner's construction choice was to design a final surface with a system that offers high protection, superior waterproofing and maximum resistance to UV radiation and weather effects. In addition, due to the historical and emotional value of the house but also its aesthetics and the requirements to harmonize it with the surrounding area, the final surface of the pool had to be uniform, without joints and joints, in an ultra-white shade.

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, 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:

Applicator: **Giorgos Anagnostakis**





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