



# SIKA AT WORK

## Roof waterproofing of luxurious holiday house with liquid applied membranes, Mykonos

REHABILITATION: SikaRep®-300 Classic

ROOFING: Sika® Concrete Primer, Sikalastic®-612, Sika® Reemat Premium, Sikalastic®-641 TC

BUILDING TRUST



# ROOFING WITH SIKALASTIC® (LAM) SYSTEM, MYKONOS



## PROJECT DESCRIPTION

The roof of a luxurious summerhouse in Mykonos had to be urgently rehabilitated, as the existing asphaltic bituminous system had failed.

## APPLICATION DEMANDS

Since there was not enough time available for removal of existing layer, the selected system had to be applied to the existing bituminous felt. The system therefore should have the lowest possible total thickness, high UV, weather and ageing resistance – phenomenon particularly pronounced in the Cyclades. Moreover, due to the original architecture of the Cycladic island, as well as the aesthetics of the residence itself and the requirement of its harmonization with the surrounding area, the final shade of the horizontal surface of the roof had to be gray, while the parapets and the vertical surfaces should be extra-white.

## SIKA SOLUTION

Taking into account all the above parameters, the proposed and finally selected roof waterproofing system was a **Sikalastic®** Liquid Applied Membrane System. The system comprises of a primer, an MTC® technology liquid polyurethane base coat, reinforcement and a final UV resistant coat. The multiple advantages of the system include its application easiness (applied by roller, without use of specialized and complex equipment), its application safety (cold applied, without use of flame, almost immediate resistance against rain fall), high aesthetic of the final surface (seamless surface, totally uniform), its high mechanical resistance (reinforced system, resistance against contraction-expansion), long term resistance against weathering, ageing and UV action (final coat is UV resistant).

## APPLICATION PROCEDURE

Initially the surface was prepared by removing loose segments and applying the polyurea / polyurethane based primer **Sika® Concrete Primer**.



Its main advantages include the cure speed – overcoating is possible after 30 minutes - the significant reduction in the event of outgassing and the stabilization of dusty and friable substrates.



**MTC® technology (Moisture Triggered Chemistry):** Sika's MTC® systems describe liquid applied membranes based on a unique curing technology type, which is activated by moisture, but remains unaffected from it during curing. This means that these membranes can cure over a wide range of conditions, including extreme temperature and humidity fluctuations. Unlike conventional polyurethane liquid membrane systems, they do not release CO<sub>2</sub>, which often causes foaming phenomena and their application is not affected by adverse environmental conditions.

Then the application of the base coat followed, using the 1-component, **MTC®** polyurethane membrane **Sikalastic®-612**, into which the glass fleece **Sika® Reemat Premium** was embedded. **Sikalastic®-612** is easy to apply and the glass fleece embedment offers top dimensional stability against thermal fluctuations (day-night). In cases of demands for concrete repairs on elements, this was performed using the 1-component cementitious mortar **SikaRep®-300 Classic**.



The final coating was **Sikalastic®-641 TC**, a liquid applied membrane in the selected colour, depending on the element type (grey on horizontal surfaces and extra-white on vertical). **Sikalastic®-641 TC** exhibits exceptional resistance against UV radiation and in common atmospheric chemicals. **Sikalastic®-641 TC** remains permanently elastic, can be overcoated (no stripping is required), is vapor permeable and is almost immediately unaffected by rainfall (fast curing aliphatic polyurethane).

## PROJECT PARTICIPANTS:

Applicator contractor: **VIDOS Ltd**



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**Sika Hellas ABEE**  
Protomagias 15  
145 68, Kryoneri  
Greece

**Contact**  
Tels.: +30 210 8160600  
Fax: +30 210 8160606  
[www.sika.gr](http://www.sika.gr) / [sika@gr.sika.com](mailto:sika@gr.sika.com)

