



Sika at Work

Project Participants

Contractor: Ecostruct

Other Recommended SikaRoof® MTC Solutions

- SikaRoof® MTC for Exposed Roofs
- SikaRoof® MTC Ballast
- SikaRoof® MTC Green



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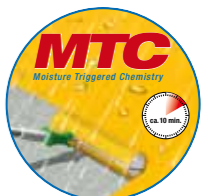
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Private Residence at North Greece

Sika Solutions for Refurbishment and Waterproofing with SikaRoof® MTC Green and Sika® Balcony Premium Technology



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Project Description

The project involved proposing systems and solutions for waterproofing and flooring a 2-storey private residence at North Greece. The ground floor had a store and the first floor was the house area. Each floor occupied an area of approximately 700m², while the apartment had also a 430m² balcony.

The old system that was applied as waterproofing for the balcony areas and failed, was inorganic coatings, having as a final surface tiles. The waterproofing had failed, resulting in spot humidity at the roof of the ground floor.



Project Requirements

The application was quite challenging and multi-tasking:

- The waterproofing system for the green areas should satisfy the highest demands regarding root resistance.
- The waterproofing system for the rest of the area should be permanently UV and weather resistant, able to withstand permanent foot traffic and be available in light grey color.
- Both systems should be applied directly over the tiled surface.

Moreover, the owner requested for a change in use of the balcony and creation of garden.



Sika Solution

Plants areas (Garden)

Based on the above requirements, the Sika system that was selected for the plant area was the **SikaRoof® MTC Green**. This system is a cold applied, seamless, based on the innovative "Moisture Triggered Chemistry" polyurethane membrane and is applied by rollers at a 1.8 mm thickness.

This particular waterproofing system was the optimum solution not only due to its high resistance against roots, but as well as due to its easy application which required no specific equipment.

The system was applied directly over the tiled surface with the use of **Sika® Concrete Primer**, a fast curing Polyurea primer. The reinforcement **Sika® Reemat Premium** was embedded in the first layer of the system **Sikalastic® 601 BC** and the system was finished with the application of one layer of **Sikalastic® 621 TC**, achieving a total system thickness of 1.8 mm.

Balcony area

For the balcony area the **Sika® Balcony Premium** System (with Deco finish) based on the innovative "Moisture Triggered Chemistry" was selected, a slip resistant system with high UV, weather and abrasion resistance.

The **Sika® Balcony Premium** System was applied directly over the tiled surface with the use of **Sika® Concrete Primer**, a fast curing Polyurea primer. Then, the waterproofing system was applied, consisting of two layers of **Sikafloor® 405**, reinforced with the fiberglass **Sika® Reemat Premium** at the first layer. For the formation of the final surface, an additional layer of it was applied over the waterproofing system and while still fresh, was broadcasted with colored flakes (color chips). The system was sealed with **Sikafloor® 416**, a mat transparent topcoat.

