

Sika at Work



Heart Mall, Athens, Greece

Sika Solutions from Basement to Roof For Multifunctional Commercial Centre

Waterproofing: **Sikaplan**[®]

Flooring: **Sikafloor**[®]

Roofing: **Sarnafil**[®]





Project Description

The Heart Shopping Mall is a brand new, medium sized shopping Mall in Athens, the capital of Greece. It is located in Peiraios Street in the City quarter of Tavros, on the way from Athens City Center to the Pireas Harbour. Construction of the Mall started in September 2007 and it opened on time in December 2008. It has been build on a 10000 m² plot and total surface rented out amounts to 20000 m². The total project cost was about 23.000.000 Euro.

Basement Waterproofing

Requirements:

Well before the start of construction, the designer architects and engineers took care of planning the most suitable waterproofing system for the underground parts of the Athens Heart Mall.

The task was to design, execute and supervise a well thought-through and secure system to protect the structure against the ingress of ground water. From the beginning the complete life cycle cost including installation, maintenance, repair options and proven durability were on the top of the agenda. Sika engineers were involved at a very early stage. The chosen solution was a convincing combination of Sika water bars and high performance synthetic waterproofing membranes which allowed a compartmentalisation of the waterproofing envelope. This offers a huge advantage in case of the unlikely event of a leak, because it will be much easier to locate and fix it..

Sika Solution

3000 meters of Sika Waterbars

- 18300 m² of **Sikaplan® WP 1100-20HL** and many other components like **Sika® Drain**, **S Felt M 500**, **Sikaplan® Control Sockets** etc.
- Supervision and design support by specialised Sika engineers.





Car Park Deck

Requirements:

Protective coatings of car parks are among the most stressed surfaces of a building. Mechanical stress created by tyres and trolleys and high and low temperatures are accompanied by chemical attacks. E.g. by de-icing salts. Experiences clearly show, that car park coatings only work reliably with a systematic, coordinated approach out of one hand. Besides the products this has to include detailed planning of connections, joints, drainage, application, quality control, cleaning and maintenance.

Sika solution:

22000 m² Floor coating of the underground car park:

- Sikafloor® 261 RAL 7035
- Sikafloor® 156
- Sikafloor® 264 RAL 7035



Roofing

Requirements:

Waterproofing of the roof has an “umbrella function” and thus contributes to the long term functioning of the building. In Greece, roofs are exposed to rain, storms, high and cold temperatures, strong UV radiation, smog and so on. The chosen system has to reliably master all those exposures. Detailed analysis for the Heart Mall showed that the original specified bituminous membrane would have resulted in higher overall life cycle cost.

Sika solution:

- Sarnafil® TG 66-15, 4000 m²
- S Felt A 300
- Sarnabar®
- Sarnafil® T Metal Sheet
- Sikaflex® AT Facade





Project Participants

Owner: Pasa Development

Main Contractor: Terna

Sub Contractor: Pantelis Kostakis for installation of waterproofing and roofing membrane

Designer: Jourda Paris, Conran, Diarchon

Other Recommended Sika Solutions for Shopping Centres

- Basement waterproofing with watertight concrete and joints using **Sika® ViscoCrete®**, **Sikaplast®** and **Sika® Waterbars**.
- Joint sealing with **Sikaflex®** and **Sikasil®**
- Corrosion protection of steel with **SikaCor®**
- Concrete protection and repair with **Sika® MonoTop®** and **Sikagard®**
- Fire protection with **Sika® Unitherm** and **Sika® Cafco Systems**
- Structural glazing with **Sikasil® SG** range
- Bonding of façade panels with **SikaTack® Panel System**

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