



CRETAMEL

PERFECTLY INSULATED WALLS FOR THE LARGEST HONEY PRODUCER IN CRETE

The Greek island Crete, apart from being a worldwide famous tourist destination, is also well known for its gastronomic specialties such as wines, cheese and above all, the Cretan honey. Because of the big number of unique Cretan herbs and plants, the honey produced in the island has a very special flavor and is sought out from many connoisseurs all around the world.

Cretamel S.A. is the biggest enterprise in the field of honey products in Crete and was founded back in 1996 by a family which is carrying on a long-time tradition in the field of honey production. Their aim is to combine modern technology with their knowledge on the subject in order to produce the finest quality honey products. As their Cretan honey conquered the markets of Greece and Europe, new product lines were created over the years like those including sesame-honey bars, nut bars and nougats.

In 2015 the company management decided to build a new manufacturing unit in order to increase their production and warehouse capacity. The project was completed in January 2017 providing a modernized, cutting-edge facility. It consists of three levels, each one covering 2,900 m² floor surface. The

basement is used as a warehouse whereas the ground level and the first floor house the production facilities and the offices of the firm.

MAPEI SOLUTIONS FOR THERMAL INSULATION

Mapei contributed to the project in two distinct phases: the application of a thermal insulation system on the outside façades and the installation of ceramic tiles in the interiors.

The owner of the company wanted an energy efficient building, therefore the use of a thermal insulation system in combination with other means (such as solar panels and geothermic tools) was one of his top priorities. The MAPETHERM EPS SYSTEM supplied by Mapei Hellas SA, the Greek subsidiary of the Group, was finally selected among other solutions due to the reliable support by Mapei Technical Services and the fine reputation enjoyed by Mapei products such as MAPETHERM AR1 adhesive and QUARZOLITE TONACHINO coating. Indeed, the excellent properties of both products had already been well appreciated on the Greek market due to their use on several projects both in Greece and in Crete. The MAPETHERM EPS



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PHOTO 1. The Cretamel production unit in Heraklion, Crete.

PHOTO 2. The external walls were properly insulated with the MAPETHERM EPS system before being finished with QUARZOLITE TONACHINO.

PHOTOS 3 and 4. Ceramic tiles were installed in the interiors with KERAFLEX MAXI S1 and ADESILEX P9, while joints were grouted with KERAPOXY CQ.

SYSTEM turned out to be the best solution in terms of benefit-cost ratio.

The MAPETHERM EPS SYSTEM involved the use of MAPETHERM AR1 cementitious mortar for bonding the MAPETHERM EPS extruded sintered polystyrene insulating panels, as well as for smoothing the panels with embedded MAPETHERM NET alkali-resistant glass fibre mesh.

MAPETHERM FIX polypropylene fasteners were used to complete the application of the system. The insulated walls were then coated with QUARZOLITE TONACHINO high-protection, thick-layered acrylic coating product with high filling properties. Ceramic tiles were installed on walls and floors in all the interiors devoted to production using KERAFLEX MAXI S1 deformable, cementitious adhesive with no vertical slip, extended open time, excellent workability and Low Dust technology. Tile joints were grouted with KERAPOXY CQ two-component epoxy grout, easy to apply, with excellent cleanability. Due to its bacteriostatic agent and BioBlock® technology, the product offers the highest degree of hygiene protection, which is especially relevant in food production units. In all the office areas floors were covered with porcelain tiles bonded with ADESILEX P9 cementitious adhesive with no vertical slip and extended open time. Joints were again grouted with KERAPOXY CQ.

Thanks to the use of the Mapei solutions a safe, durable and hygienic environment is now available for the production of the famous Cretan honey.

IN THE SPOTLIGHT

MAPETHERM AR1

It is a grey powder consisting of cement, selected fine grained sands, synthetic resins and additives. It is used for bonding all types of thermal insulation panels on renders, brickwork or concrete walls or ceilings, as well as for smoothing thermal insulation panels with embedded fibreglass reinforcing mesh on internal and external walls. Mixed with water, MAPETHERM AR1 becomes

a mortar with the following characteristics: low viscosity, therefore easy to trowel; highly thixotropic; bonding perfectly to all types of insulating panels and to all materials normally used in the building industry; hardening without noticeable shrinkage.



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TECHNICAL DATA

Cretamel production unit,

Heraklion, Crete (Greece)

Period of construction:

2014-2016

Year of the Mapei

intervention: 2014-2016

Intervention by Mapei:

supplying products for insulating external walls and

installing ceramic tiles in interiors

Client: Rasoulis Ioannis, Cretamel S.A.

Main contractor: Cretamel Technical Department

Installation company:

Marios Viniaski

Mapei distributors: Afoi Baxevasi

Mapei coordinators:

Panagiotis Rerras and Gianni Koropoulis, Mapei Hellas SA (Greece)

MAPEI PRODUCTS

Insulating façades:

Mapetherm AR1, Mapetherm EPS, Mapetherm Net, Mapetherm Fix

Finishing the façades:

Quarzolite Tonachino
Installing ceramic tiles: Keraflex Maxi S1, Adesilex P9
Grouting joints: Kerapoxy CQ.

For further information on products see www.mapei.com and www.mapei.gr