



SIKA AT WORK

Restoration of Panourgia's house and transformation into Historical Information Centre, Amfissa, Greece

TEXTILE REINFORCED MORTAR SYSTEM (TRM): Sika MonoTop®-722 Mur, SikaWrap®-350 G Grid, SikaWrap® FX-50 C, Sikadur®-52 LP, Sika® AnchorFix®-3+

RESTORATION OF PANOURGIA'S HOUSE, GREECE



PROJECT DESCRIPTION

The house of the chief-captain Panourgias in Amfissa, Greece dates back to the end of the 18th century, following the folk architecture style. It consists of a main two-storey building and an addition by extension to the first floor with a total area of 286,84m², while the total area site on which it is located is 1,034.27m². Due to its bad condition, and after joining the National Council for Quality Development program (NCQD) a rehabilitation provision and its conversion into Historical Information Center was organized.

The interventions for the re-use of the house had to be done on the basis of its new use, while basic care should be taken for its harmonization into the natural environment by maintaining, as far as possible, the primary elements of the construction.

APPLICATION DEMANDS

The building had several peculiarities, with the type of masonry to be one of them (rubble). The restoration of the building should be designed and implemented so as to highlight all time parts of the building and not altered anything of its elements. Interventions for its reuse should be done in a way to accommodate the new use and the required functionality as Historical Information Center and all modern design requirements for static and seismic loads and the bearing capacity according to the new regulations, without altering the building's character.

SIKA SOLUTION

All remediation requirements were satisfied with the integration of the current needs in the traditional shell via strengthening the bearing structure (inorganic matrix method - in Greece has been implemented in a few structures and on a much smaller scale). The same materials from the area of the construction were used, so as to achieve full harmonization of the building with its natural environment and involve as much as possible the wisdom and truth of the original construction. The integrated Textile Reinforced Mortar System (TRM) of Sika gave new life to the building, serving the needs of the most compatible possible intervention in the bearing structure.

Sika system comprises of the 1-component mortar **Sika MonoTop®-722 Mur**, with especially good workability and thixotropy, according to EN 998-1 (GP) and EN 998-2 (M20) for masonry applications. The special glass, alkali resistant mesh **SikaWrap®-350 G Grid**, with high tensile strength in both directions is embedded in the mortar. The special carbon fiber cordons **SikaWrap® FX-50 C** are used to anchor the system to the substrate. The specification made provisions for a double layer system at the bottom (ground floor) and single at the upper floor (1st floor). Also, the injection resin Sikadur® -52 LP and the anchoring resin Sika® Anchorfix-3+ were used.

PROJECT PARTICIPANTS

Owner: **Municipality of Delphi**

Applicator Contractor: **DOMISIS TECHNIKI Ltd**

Our most recent General Sales Terms shall apply.

Please consult the most recent Product Data Sheets prior to any use and processing.



Sika Hellas ABEE
15 Protomagias Str.
145 68, Kryoneri
Athens-Greece

Contact

Tel: +30 210 8160600

Fax: +30 210 8160606

www.sika.gr / sika@gr.sika.com

BUILDING TRUST

