



SIKA AT WORK

EPIRUS SPORT AND HEALTH CENTER, IOANNINA, GREECE

MORTAR PRODUCTION, WATERPROOFING, ELASTIC JOINT SEALING,
REFURBISHMENT & PROTECTION, RIGID BONDING & ANCHORING,
TILE ADHESIVES & TILE GROUTING

BUILDING TRUST



EPIRUS SPORT AND HEALTH CENTER IOANNINA, GREECE

PROJECT DESCRIPTION

With 12,000 m² EPIRUS SPORTS and HEALTH CENTER is the largest and most comprehensive sports and wellness center in Greece. It was designed and built according to the latest construction standards and specifications and approved by the General Sports Secretary regarding safety and hygiene standards. A professional size football pitch as well as four indoor swimming pools (for swimming competitions, learners, baby swimming, and spa) are part of the facility.

APPLICATION DEMANDS

This center required a vast variety of products and systems among different application fields: additives for mortar production, repair and protection products, waterproofing, tile adhesives, tile grouts and sealants. Solutions for the pools have to withstand permanent immersion in chlorinated water and contraction/expansion tensions.

SIKA SOLUTION

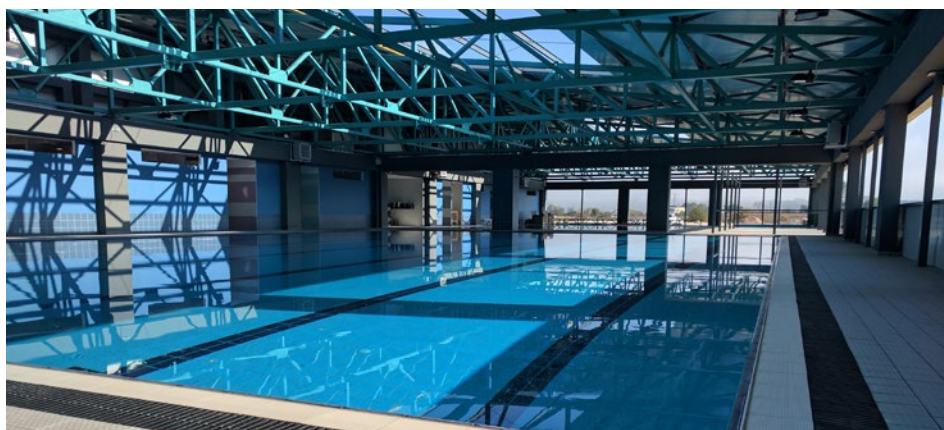
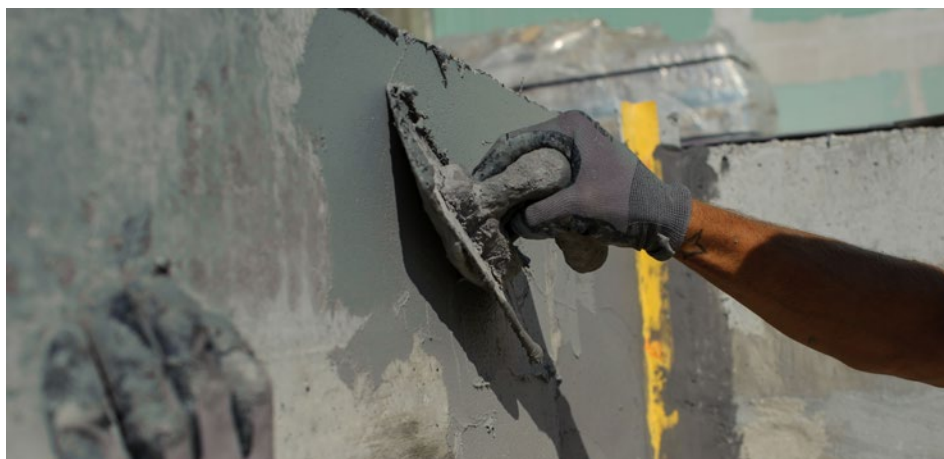
POOLS

Mortar production:

The mortar mixes for the pools, featuring high flexibility and increased watertightness, were produced using the special admixtures Sika LatexMax[®] and Sika Viscobond[®].

Waterproofing:

The pools were waterproofed by using the one-component, cementitious, mortar Sikalastic[®]-1K reinforced with the glass net Sika[®] FiberNet. Sealing of all construction joints during concrete castings was performed with the expansive hydrophilic sealant SikaSwell[®]-S2, while in all wall-floor connections and in the perimeter of the pools the waterproofing Sika[®] SealTape came into place. Sikadur[®]-31 EF sealed all holes after mold removal.



Tile setting in pools, locker rooms and restrooms:

Sika primer was used to prepare all surfaces before bonding ceramic tiles with the one-component, cementitious SikaCeram® tile adhesives. SikaCeram®-243 UltraFlex was not only used in pools but as well on gypsum boards in locker rooms and restrooms (contraction/expansion tensions and increased deformability). For the floors SikaCeram®-203 Superbond was applied. The cementitious SikaCeram® CleanGrout and the epoxy-based SikaCeram® StarGrout were chosen for tile grouting.

Rigid bonding and anchoring:

Whenever there was a demand for increased adhesion between old and new concrete castings or rapid setting anchoring, the rigid adhesives Sikadur®-32 EF and Sika AnchorFix®-3+ were used.

Elastic joint sealing:

Polyurethane and silicone based Sika sealants were applied for elastic joint sealing.

Concrete refurbishment:

Restoration of the original dimensions of all concrete sections and elements was done with the one-component cementitious Sika MonoTop® mortar series. Sika MonoTop®-621 Evolution was applied for decorative elements and sections. The final exposed surface was protected with Sikagard®-700 S coating.

Gutter and panel waterproofing:

Waterproofing of these elements was performed using the liquid applied waterproofing membrane Sikalastic®-612, reinforced with the glass mat Sika® Reemat Premium.

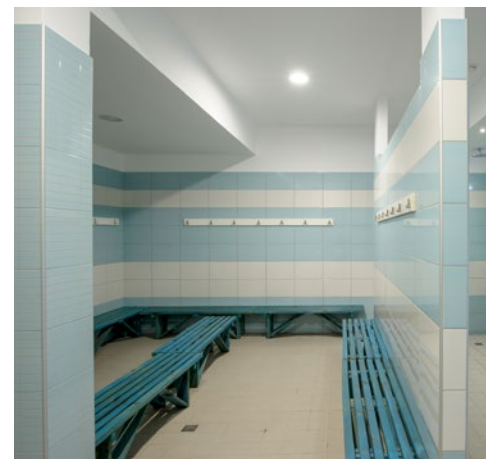
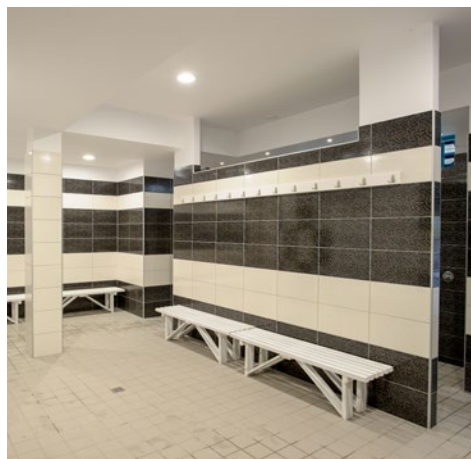
PROJECT PARTICIPANTS

Owners: Petros Pappas & Kostas Papalambropoulos

Specification: Ergon Engineering

Contractors: Tile Bonding: Vasilis Markoulas,

Decorative Coatings Waterproofing: Giorgos Katsios



EPIRUS SPORT AND HEALTH CENTER, GREECE



Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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