



SIKA AT WORK

Epirus Sport & Health Center, Greece

MORTAR PRODUCTION: Sika LatexMax[®], Sika[®] Viscobond

WATERPROOFING: SikaSwell[®], Sika[®] Minipack Waterplug, Sikalastic[®]-1k, Sika[®] SealTape S, Sikalastic[®]-612

ELASTIC JOINT SEALING: Sikaflex[®]-11 FC, Sikasil[®] Pool, Sanisil[®], Acesil[®]

REFURBISHMENT & PROTECTION: Sika MonoTop[®], SikaRep[®], Sikagard[®]

RIGID BONDING & ANCHORING: Sikadur[®], Sika AnchorFix[®]

TILE ADHESIVES & TILE GROUTING: SikaCeram[®], SikaCeram[®] StarGrout, SikaCeram[®] CleanGrout

EPIRUS SPORT & HEALTH CENTER, IOANNINA, GREECE



PROJECT DESCRIPTION

EPIRUS SPORTS & HEALTH CENTER is constructed on a 12,000m² area. It is the largest and most comprehensive sports and wellness center in Greece. Created following the most modern construction standards and specifications, it is approved by the General Sports Secretary regarding safety and hygiene standards. The center includes a professional size football pitch, while it features 4 indoor swimming pools (racing, learning, baby swimming, physiotherapy with common variable use into spa-pool).

APPLICATION DEMANDS

Such a center required a vast plurality of products and systems related to the wide range of application fields: repair and protection products, additives for mortar production, sealants, tile adhesives and tile grouts. Especially regarding the pools of the center, the selected waterproofing system comprised of cementitious waterproofing mortar in combination with cementitious tile adhesives. Therefore the products that would be used for this application should have to withstand permanent immersion in chlorinated water and contraction/expansion tensions.

SIKA SOLUTION

POOLS

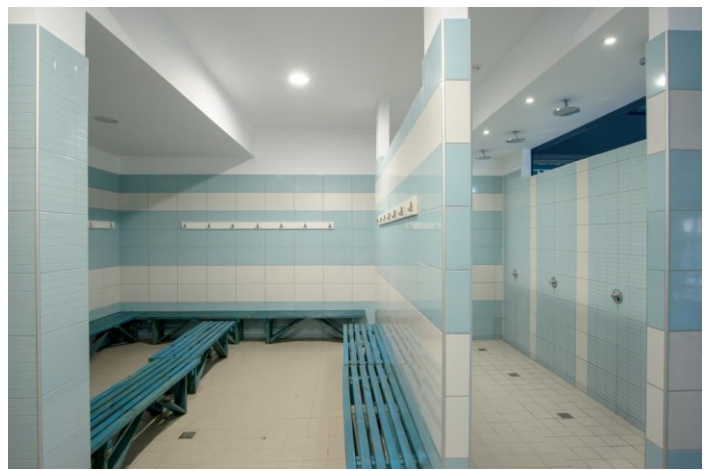
Mortar production: The mixes of configuration mortars for the pools, featuring high flexibility and increased watertightness, were produced using the special admixtures Sika LatexMax® and Sika® Viscobond.

Waterproofing: The waterproofing of all surfaces was performed using the cementitious, 1-component mortar Sikalastic®-1k, reinforced with the glass net Sika® FiberNet. Sealing of all construction joints during concrete castings was performed using the expansive hydrophilic sealant SikaSwell®-S2, while in all wall-floor connections and in the perimeter of the pools the waterproofing tape Sika® SealTape-S was used. Sealing of all holes after mold removal was performed using the epoxy resin Sikadur®-31 EF.



TILE BONDING ON POOLS, CHANGING & LOCKER ROOMS & WC

All areas where ceramics tiles would be bonded were prepared using suitable Sika primer, following by the application of 1-component, cementitious SikaCeram® tile adhesives. Tile grouting was performed using the cementitious and epoxy based tile grout SikaCeram® CleanGrout & SikaCeram® StarGrout respectively. A major advantage in the use of SikaCeram® tile adhesives was the fact that they were used not only for the pool surfaces, but also for bonding ceramic tiles onto gypsum boards (contraction/expansion tensions & increased deformability).

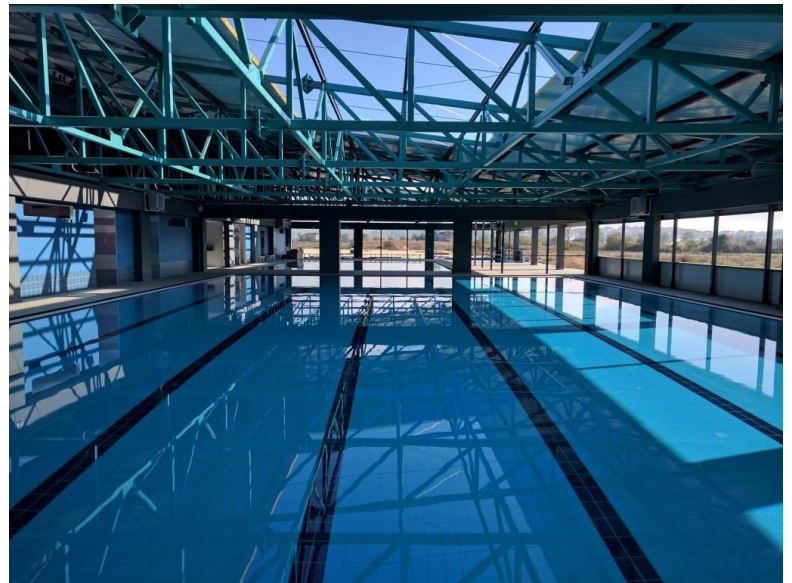
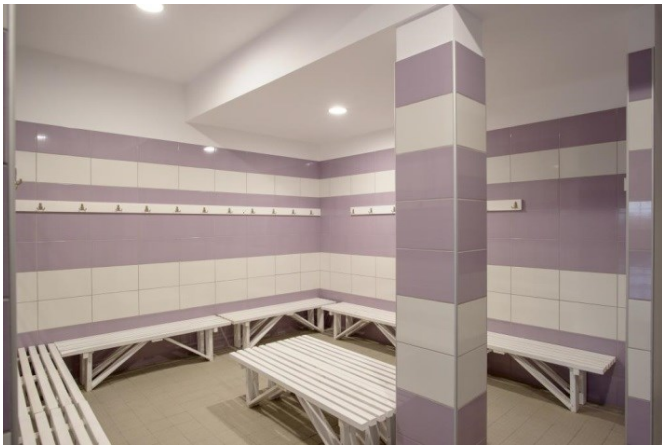


Rigid bonding & anchoring: In cases of demands for increased adhesion between old and new concrete castings, and whenever there were demands for rapid setting anchoring applications, the rigid adhesives Sikadur®-32 EF and Sika AnchorFix®-3+ were used respectively.

Elastic joint sealing: All joints with requirements for use of an elastic sealant were sealed using polyurethane and silicone based Sika sealants.

Concrete refurbishment: Restoration of the original dimensions of all concrete sections and elements was performed using the 1-component cementitious mortars from the Sika MonoTop® series. In cases of exposed and decorative elements & sections of the construction, application of the 1-component, repair mortar for rendering Sika MonoTop®-621 Evolution was used, while protection of the final exposed surface was performed using Sikagard®-700 S coating.

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



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

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