

Cementitious tiling of private swimming pool

PCI makes swimming pool dreams come true

The owner of a luxury mansion in the Rhine-Main area ordered the refurbishment of his private swimming pool exclusively with cementitious tiling materials. The stylish glass mosaic pattern was designed by the owner itself. So the main challenge of this project was the tiling and grouting of the especially designed mosaic. While relying on high-quality building materials and the professional support of PCI Augsburg GmbH, the Dreieich based company Hoffelner GmbH did a brilliant job in fulfilling this task.

The 11x5.5 m private swimming pool had seen better days and didn't fit the atmosphere of the room anymore. Years ago already, an artist had painted the walls in a stylish design. So, the old-fashioned white pool ceramics had to be replaced accordingly by an exclusive glass mosaic. A special supplier produced the mosaics in accordance with the owner's instructions. The Hoffelner company won the contract as it has built its name with numerous exclusive swimming pool refurbishment projects. Due to the long standing cooperation with the Augsburg based construction material experts, business manager Gerhard Hoffelner contacted PCI specialist Kurt Borchart and Ingo Grollmisch, regional manager of PCI application technology, for this project as well. The jointly developed refurbishment schedule finally convinced the owners. This functional and lasting solution in mind, the refurbishment work could be implemented with the desired construction materials within the planned budget.

Refurbishment according to requirements

After draining the pool, the existing structure was examined and the tiling experts jointly with PCI decided on the extent of the required refurbishment of the substructure. The existing floor tiles including the thick bed mortar below had to be removed. The wall tiles could remain as they were in a good condition fitting without hollows. In the area of the pool edge the Hoffelner staff removed two rows of old ceramic tiles but the rest of the tiles were in good order and could remain. In order to prepare a subfloor with good adhesive properties, a new bonded screed was installed by applying the fast setting screed cement PCI Novoment Z1. Before that, PCI Repahaft was applied wet-in-wet functioning as a bonding slurry. PCI Seccoral complete tanking system was used to waterproof pool ground and walls. The cementitious, crack-bridging waterproofing slurry PCI Seccoral 2K was applied with a minimum thickness for wet layers of 2.5 mm in conjunction with the flexible waterproofing tape system Pecitape 120 for wall-floor and wall-wall connections. In order to ensure the impermeability in the area of the floor drainages, the tiling experts applied an epoxy resin

Objektbericht: Schwimmbad-Rhein-Main-Gebiet_lang

Freigaben: Ingo Grollmisch

mortar consisting of the special bonding primer PCI Epoxigrund 390 and kiln-dried quartz sand.

Laying materials as requested

At the expressed wish of the client, the laying and grouting of the glass mosaic had to be realized with cementitious products. Even though epoxy resin mortar is more resistant to chemical attacks, cementitious mortars have the great advantage that, due to their inorganic ingredients, mildew rather rarely or never builds up. The next step consisted in preparing a level, white substructure for the transparent glass mosaic. The supervising tiler, Mr Egon Puhl, used the light and flexible tile adhesive PCI Nanolight white together with PCI Lastoflex for the putty work. The glass mosaic, adhered to a paper at the front, was subsequently laid with these products as well. PCI Nanolight can be used for adhesive beds of 1-15 mm, it is very low-emission according to GEV EMICODE EC 1R and minimizes the formation of dust when opening, pouring and mixing. The whole covering was grouted with PCI Nanofug in "bahamabeige" matching the colour of the glass mosaic. A professional water regulation is crucial for ensuring durability of the cementitious grout. But such requirement is mandatory anyway for hygienically perfect water in a swimming pool. The company Hoffelner completed the refurbishment of this extraordinary exclusive private swimming pool with a premium result. Thanks to the good cooperation between processors and manufacturer the refurbishment went smoothly. The work result speaks for itself!