

Object	Competitive once again: Indoor swimming pool Gedern in Germany with new design
Subtitle	Essential refurbishment prevents old swimming pool from demolition
Place	Gedern, Germany
Period of execution	2011
Task	Refurbishment of the whole swimming pool bordering and walls as well as the showers and the barrier-free redesigned bathrooms
Object size	Pool of 25 m: approx. 430 sq. m floor tiles of which 230 sq. m pool edge; 280 sq. m wall tiles (shower, toilet and pool area)
Products used	PCI Gisogrund 303, PCI Seccoral 2K, PCI Pecitape 120, PCI Nanolight, PCI Durafug NT
Client	Gedern municipality
Planning / Site manager	Architects Alfred Möller, Bad Nauheim, Germany
Company	Tiling company Fliesen Möller GmbH Co. KG, Kalbach, Germany
Expert advice	Mr Ingo Grollmisch, PCI Application Technology

Description

The German volcano city Gedern, idyllically situated at the southwest hillside of the "Vogelberg", offers residents and visitors a wide range of leisure time facilities. This includes the city indoor swimming pool as well. Built in the seventies as a functional training pool, it has lost more and more its attractiveness and acceptance over the years. Consequently, visitor numbers declined steadily, not least because of the high competition by more attractive leisure and adventure pools in the environment. So the Gedern municipality decided to refurbish the indoor swimming pool from the scratch, and assigned that task to the Alfred Möller architects of Bad Nauheim. In close cooperation with tiling company Möller, PCI application engineer Ingo Grollmisch developed the restructuring plan for tiling the pool edge, the walls as well as the showers and toilet areas. The sound pool body was kept.

At first, the old covering including substructure was removed and, afterwards, cementitious heating screed was applied. Due to the low structural height, the experts opted for a bonded waterproofing barrier, which had to comply with various German building codes (LBO) and with the Building Regulations of the German Institute for Building Technology, Berlin (DIBt) for public wet areas. According to the requirements of use class A, a plastic-treated mortar or a reaction resin-based system had to be applied. In order to tank the new heating screed layer, **PCI Seccoral 2K** was used as a bonded waterproofing barrier with a minimum dry coat thickness of 2 mm. **PCI Pecitape 120**, the special waterproofing tape system, was used for the connection with the old sealing and the walls. Then, the 5 x 5 cm ceramic mosaics were laid with **PCI Nanolight** and grouted with **PCI Durafug NT**. **PCI Pecitape** was laid in a bed of **PCI Seccoral 2K**, which, together with **PCI Nanolight**, has been approved by the building authorities. The tiled walls were thoroughly cleaned and primed with **PCI Gisogrund 303**. Afterwards, the new tiles were laid with **PCI Nanolight** und grouted with **PCI Durafug NT**. In the showers and toilets, the tiling work followed the same order.

So the Gedern swimming pool has been brought up to the latest standards now: It is a low-energy building due to a thermal insulation composite system and its triple glazing. A combined heat and power unit is generating the required electricity and a new filter system provides water of improved quality. Since its opening in November 2011, the Gedern swimming pool can compete with other swimming pools in the area and is attracting numerous visitors thanks to the friendly design and

Objektbericht: Hallenbad-Gedern_kurz
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the modern look of the tiles.