

Reference project

Augsburg, 27.10.2017

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PCI provides support for the construction of a unique designer floor with PCI Periplan Multi

A floor that is all of a piece

The objective of project owner and builder Holger Andreas in Neubrandenburg was to create a unique floor for his modern home. The cementitious levelling compound PCI Periplan Multi was used with a black tinting paste produced by MIXOL to construct an extraordinary floor with aesthetically pleasing colour progressions. Apart from its special appearance, the floor, which was to be used without additional covering, had to meet special requirements in terms of geometry and thermal conditions. PCI adviser Mathias Fründt provided site service for the project, with the support of the PCI Technical Service department in Wittenberg.

In advance of the project, PCI service technician Uwe Heinrich laid sample areas to test the behaviour of the levelling compound with the tinting paste and to preselect products for the client. Although there may be differences between sample areas and the actual floor as regards colour progressions and texture, sample areas still give a very good indication of the final result.

New floor in only a few steps

The substrates, which were mainly heated cement screed, were initially prepared by applying two coats of PCI Gisogrund 404 special

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primer. The solvent-free primer has very low emissions and allows good bonding to the substrate. For the floor, which was intended for direct use, the flowable levelling compound PCI Periplan Multi was mixed and then tinted using the MIXOL tinting paste. As our client Andreas wished, the levelling compound was applied manually to the dried, cured primer with a level thickness of about 5 mm. The excellent preparation of the substrate by primer application had a very positive impact on the work, as did compliance with the specified ambient temperatures and the avoidance of drafts and strong sunlight during the entire application and drying process. To provide durable protection for the unique floor, the floors were then sealed using the wear-resistant, anti-slip PCI Zemtec Top sealing compound, a two-component aqueous polyurethane product.

Challenges mastered

In line with the modern loft architecture of the single-family home, the objective was to create an exclusive floor covering. To meet the requirements of the various rooms, the covering was also to be seamless. As some of the rooms are very brightly lit as a result of the large window areas, it was clear that the floor covering would have to accommodate thermal stress and be ageing-resistant. In other rooms, it was necessary to adapt the flooring precisely to the shape of the room and to connections with existing flooring. These challenges were mastered using PCI Periplan Multi. The floor levelling compound is flowable and simply adapts to the structures of a room. The fibre reinforcement of PCI Periplan Multi ensures low-stress curing and prevents cracking. Furthermore, the product is certified to

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GEV_EMICODE EC 1 PLUS R and contributes to a healthy living environment because of its very low emissions.

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Project data

Project title:	A floor that is all of one piece
Subtitle:	PCI provides support for the construction of a unique designer floor with PCI Periplan Multi
Location:	Neubrandenburg
Year of completion:	2016/17
Objective:	Creation of a unique floor with PCI Periplan Multi, a cementitious floor levelling compound, tinted with a universal tinting paste
Project size:	210 m ²
Products used:	PCI Gisogrund 404, PCI Periplan Multi, PCI Zemtec Top
Project owner:	Andreas family, Neubrandenburg
Contractor:	bau-h-and GmbH, Neubrandenburg
PCI applications technicians:	Uwe Heinrich, Wolfgang Dehmel,
PCI technical adviser:	Dipl.-Ing. (FH) Mathias Fründt
Contact	<p>PCI Augsburg GmbH</p> <p>Piccardstraße 11</p> <p>86159 Augsburg</p> <p>Phone: + +49 821 5901-0</p> <p>Fax: + +49 821 5901-416</p> <p>Email: pci-info@basf.com</p> <p>www.pci-augsburg.de</p>

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Photos:



Fig. 1: Holger Andreas, civil engineer and Managing Director of construction company bau-h-and GmbH in Neubrandenburg, built a modern house for his family. He also laid the flooring himself using the cementitious floor levelling compound. PCI Periplan Multi, tinted with MIXOL tinting paste “Oxyd-Type Brilliant-Schwarz”.

Photo for downloading:

<https://pics.pci-augsburg.com:443/php/index.php?database=2&downloadimage=9436&size=5760x3840&format=&check=28f8ae62b4de157b7accb4be10009952>

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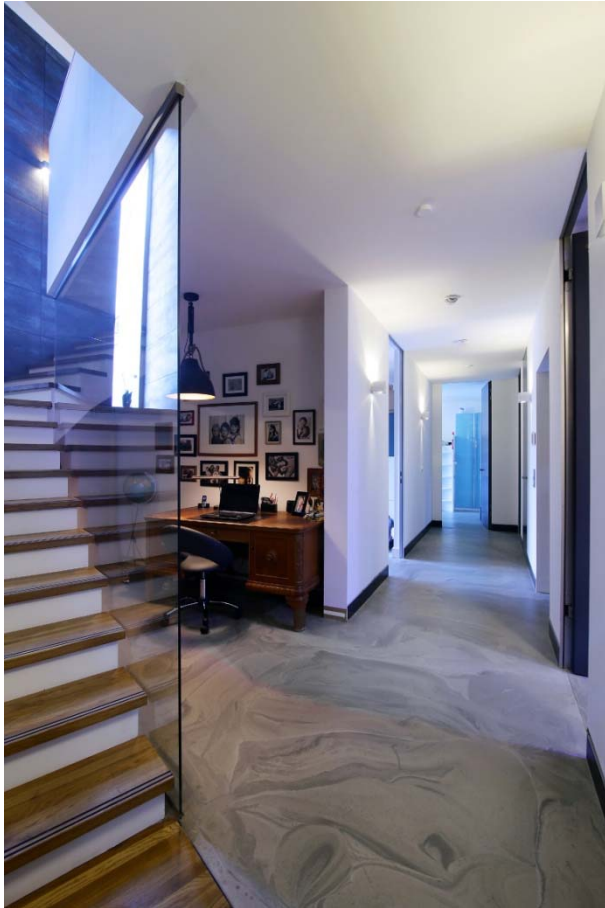


Fig. 2: The flooring which was laid features attractive colour progressions. In addition to the aesthetic demands, the flooring also meets the special geometric and thermal requirements of the project. As some of the rooms are very brightly lit as a result of the large window areas, the floor covering had to accommodate thermal stress and be ageing-resistant.

Photo for downloading:

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[augsburg.com:443/php/index.php?database=2&downloadimage=9440&size=3840x](https://pics.pci-augsburg.com:443/php/index.php?database=2&downloadimage=9440&size=3840x)

[5760&format=&check=3802b3a05b1082f1053ad719aae94b7f](https://pics.pci-augsburg.com:443/php/index.php?database=2&downloadimage=9440&size=3840x5760&format=&check=3802b3a05b1082f1053ad719aae94b7f)

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Fig. 3: The client wanted to create an exclusive floor which would adapt precisely to the requirements posed by the shapes of the individual rooms and connections to existing flooring. The very low-emission floor levelling compound PCI Periplan Multi also contributes to a healthy living environment.

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Fig. 4: After a sample area had been laid with PCI service technician Uwe Heinrich, the project was implemented. Together with PCI specialist adviser Mathias Fründt, he provided support for the client and builder on site in Neubrandenburg.

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Fig. 5: The flowable cementitious floor levelling compound PCI Periplan Multi is easy to mix and tint with the MIXOL tinting paste. It can be applied simply by pouring onto the substrate.

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Fig. 6: Client and builder in one: Holger Andreas installed the floor himself and opted for self-levelling PCI Periplan Multi levelling compound.

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About PCI

PCI Augsburg GmbH is part of the Construction Chemicals business unit of BASF and the leader in the tile laying materials sector for specialist contractors in Germany, Austria and Switzerland. In addition, the company supplies product systems for waterproofing, concrete protection and repair, as well as a full product range for the soft flooring sector. PCI employs a workforce of more than 1,200 people in Europe and generated net sales of over €250 million in 2016. Further information about PCI on the Internet at www.pci-augsburg.de.

About BASF

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