

Reference project

Augsburg, 31.01.2018

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Laying large 300 x 150 cm slabs with PCI products

Fast laying of really large slabs

On the island of Usedom on the Baltic coast of Germany, a housing development with residential and holiday flats was constructed in 2016 very near to the beach in the elegant seaside resort of Heringsdorf. In one of the flats, Italian slabs with a size of 300 x 150 cm were laid on a floor area of about 110 m². In the bathrooms, large wall tiles with a size of 33 x 100 cm were installed over an area of about 40 m². Following intensive preparation of the substrate, the exclusive floor covering was laid professionally and securely using PCI Flexmörtel S1 Flott, a special tile adhesive for large floor tiles. The exposure of the floor covering to strong sunlight through the large windows and the resulting risk of stress in the covering had to be taken into consideration. In addition, large tiles had to be adapted to the shape of the rooms. PCI adviser Mathias Fründt, PCI applications technician Wolfgang Dehmel and PCI service technician Uwe Heinrich were all available to provide advice to the tilers on site.

The challenge of the substrate

The craftsmen from the tiling contractor, Reinke Fliesenfachgesellschaft mbH, started by priming the cement screed with PCI Gisogrund 404 special primer. The high bonding strength of the

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primer ensured a firm bond with the levelling compound, PCI Periplan Fein, selected especially for this substrate. “When you are laying such large slabs, it is essential to have an absolutely level substrate,” PCI adviser Mathias Fründt explains. “Even slight irregularities in the surface can lead to protruding edges or voids.” PCI Periplan Fein is self-levelling, hardens quickly and creates an even surface with very few pores. At the specified installation conditions of 23°C and 50% relative humidity, the levelling compound can already be walked on and covered with ceramic tiles after three hours.

In all areas not exposed to moisture, the craftsmen then installed PCI Pecilastic E. This deformable isolating membrane, which can absorb stress, has a crack-bridging effect and ensures a secure covering even if cracks later develop in the substrate. Its ambient and impact sound reduction properties are a further benefit. In the bathroom, PCI Pecilastic U waterproofing and insulating membrane was used to ensure reliable protection for moisture-sensitive substrates. The membranes were bonded in place using PCI Flexmörtel S1 Flott flexible tile adhesive. Joints, transition areas and connections were sealed with tapes from the PCI Pecitape range.

An adhesive for really large tiles

The very large fully vitrified floor tiles were laid using PCI Flexmörtel S1 Flott: this tile adhesive provides a firm bed which prevents large, heavy slabs from sinking in. In addition, the flexible properties of the adhesive mean that it can compensate for temperature fluctuations and stress in the substrate. The tiles were laid by the buttering and

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floating method to prevent voids to the greatest extent possible. In practice, it is not possible to push such large slabs into position. "I like to work with PCI Flexmörtel S1 Flott. The adhesive is very convenient to use and allows rapid progress on site," Gerald Beutler, the Managing Director of Reinke, reports. "Despite its long working time of three hours, the adhesive sets fast. After six hours, we can already grout the joints with PCI Nanofug Premium."

Professional installation of wall tiles in bathrooms

In the bathrooms, the tilers installed the 33 x 100 cm wall tiles using the anti-sag adhesive PCI FT Flex and grouted them with PCI Nanofug Premium. PCI Gisogrund was used for priming the substrate, followed by two coats of PCI Lastogum for waterproofing. The tiling work was completed to schedule, to the entire satisfaction of the client. "We mastered the challenges on this site successfully," says master tiler Gerald Beutler. "The outstanding advice provided by PCI and the company's quality products were a great help."

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Project data

Project title:	Fast laying of really large slabs
Subtitle:	Laying large 300 x 150 cm slabs with PCI products
Location:	Heringsdorf on the island of Usedom
Year of completion:	2017
Objective:	Installing exclusive large tiles on walls and floors
Project size:	About 110 m ²
Products used:	Floor: PCI Gisogrund 404, PCI Periplan Fein, PCI Pecilastic E, PCI Pecilastic U, PCI Pecitape, PCI Flexmörtel S1 Flott, PCI Nanofug Premium, PCI Silcofug E; Wall: PCI Gisogrund, PCI Lastogum, PCI FT Flex, PCI Nanofug Premium, PCI Silcofug E
Contractor:	Reinke Fliesenfachgesellschaft mbH
PCI applications technicians:	Wolfgang Dehmel
PCI service technician	Uwe Heinrich
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Photos (for downloading with press release)



Fig. 1: Large 300 x 150 cm tiles were laid in a flat on the island of Usedom. The challenge was mastered using products from PCI Augsburg GmbH.

Link for downloading Fig. 1: Usedom_Heringsdorf_P1340805

<https://pics.pci-augsburg.com:443/php/index.php?database=2&downloadimage=9460&size=4000x3000&format=&check=56260d87ec2db689b4323d7858113e64>

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Fig. 2: The white slabs combined with the blue elements that are repeated on the wall and in the textiles create a modern atmosphere with a maritime note.

Link for downloading Fig. 2: Usedom_Heringsdorf_P1340789

<https://pics.pci-augsburg.com:443/php/index.php?database=2&downloadimage=9459&size=3000x4000&format=&check=95fab8ab657be5cfcc271d981365a3cb>

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Fig. 3 and 4: The tilers covered about 40 m² of walls in the bathroom with 33 x 100 cm wall tiles.

Link for downloading Fig. 3: Usedom_Heringsdorf_P1340782

<https://pics.pci->

[augsburg.com:443/php/index.php?database=2&downloadimage=9458&size=4000x3000&format=&check=2366d1be76fceb44c89985e1ba9d5b7b](https://pics.pci-augsburg.com:443/php/index.php?database=2&downloadimage=9458&size=4000x3000&format=&check=2366d1be76fceb44c89985e1ba9d5b7b)

Link for downloading Fig. 4: Usedom_Heringsdorf_P1340781

<https://pics.pci->

[augsburg.com:443/php/index.php?database=2&downloadimage=9457&size=3000x4000&format=&check=23fe5295c40eb0b71960cae93c3d9958](https://pics.pci-augsburg.com:443/php/index.php?database=2&downloadimage=9457&size=3000x4000&format=&check=23fe5295c40eb0b71960cae93c3d9958)

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Fig. 5 and 6: To prevent voids to the greatest extent possible when laying the large fully vitrified slabs, the tilers applied the tile adhesive, PCI Flexmörtel S1 Flott, both to the prepared substrate and to the back of the slab.

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Link for downloading Fig. 5: Usedom_Heringsdorf_DSCN6466

<https://pics.pci-augsburg.com:443/php/index.php?database=2&downloadimage=9452&size=4608x3456&format=&check=e1cd9397a253f175513a0ef5b0860bb6>

Link for downloading Fig. 6: Usedom_Heringsdorf_DSCN6491

<https://pics.pci-augsburg.com:443/php/index.php?database=2&downloadimage=9454&size=4608x3456&format=&check=b50bfd54e271641543da4571fb94a255>



Fig. 7: To absorb stresses, the tilers installed PCI Pecilastic E insulating membrane with PCI Flexmörtel S1 Flott flexible adhesive under the tiling. The insulating and waterproofing membrane PCI Pecilastic U was used in the bathroom.

Link for downloading Fig. 7: Usedom_Heringsdorf_DSCN6454

<https://pics.pci-augsburg.com:443/php/index.php?database=2&downloadimage=9451&size=4608x3456&format=&check=85d2e403e521ab9ac0f2245586db7274>

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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. The PCI Group employs a workforce of more than 1,200 people in Europe and generated net sales of over €314 million in 2017. Further information about PCI on the Internet at www.pci-augsburg.de.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The approximately 114,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into the segments Chemicals, Performance Products, Functional Materials & Solutions, Agricultural Solutions and Oil & Gas. BASF generated sales of about €58 billion in 2016. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (BAS). Further information at www.basf.com.

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