

JOB REFERENCE

Augsburg, 02.04.2014

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Newly built villa in Krefeld

Architectural highlight with generous natural stone flooring

In the spacious living area on the ground floor of a town villa in Krefeld, large, floor-length windows allow in plenty of natural light. The high-quality natural stone flooring gives the impression of spaciousness and airiness, linking the interior to the outside. A total of 400 m² of calibrated blocks of quartzite natural stone were laid: 200 m² in the living area and 200 m² on the patio. The continuous 50 x 80 cm format is 2 cm thick inside, and the regulatory 3 cm thick outside. The contractor Benjamin Wyß and two of his appointed sub-contractors first tiled the bathrooms. The screed was then primed with PCI Gisogrund to seal it and prevent it from being affected by moisture. The professionals laid the 1 cm thick porcelain stoneware tiles (60 x 120 cm) on the wall and floor of the bathroom on the first floor with PCI FT Flex. The bathroom and the guest toilet on the ground floor were tiled with a natural stone covering in keeping with the general tiling concept on that floor using PCI Carraflott NT. PCI Carrafug was then used to grout the joints.

Spa area

The staircase between ground floor and the cellar is tiled with 60 x 120 cm porcelain stoneware cut exactly to the dimensions of the steps. The rooms in the cellar and the bathroom in the guest apartment integrated in the cellar were tiled with 60 x 60 cm and 60 x 90 cm porcelain stoneware. At its heart lies the elaborate spa area which includes a 350 x 350 cm large jacuzzi and a round shower.

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Wyß first primed the screed with PCI Gisoground Rapid. PCI Rapidlight was then used to apply an adhesive layer for the PCI Pecilastic U waterproofing and isolating membrane. The joints between the membranes were covered with PCI Pecitape 120 and PCI Seccoral 2K Rapid, as were the base areas and connections such as to the pool. The tiling professionals used PCI Lastogum on the primed wall substrate. The two seals were joined along the base area with sealing strips. The expansion joints and the connections between the wall and floor were sealed with PCI Silcoferm S and then grouted with the versatile PCI Nanofug grout.

Patio

The rear wall of a niche in the entrance area reveals a mosaic in black-and-gold natural stone with a tile dimension of approx. 1 x 1 cm. On the ground, the quartzite natural stone surface runs from the living room out to the patio. The border between inside and out almost disappears when the floor-to-ceiling windows are opened to the roughly 200 m² large patio in the summer. Whilst tiling, the installers sealed the sloping concrete slab and the steps with PCI Seccoral 2K Rapid and system sealing strips. This was followed with a single grain mortar membrane, then a 5 cm thick layer of PCI Pavifix DM mono grain mortar. A 6 mm right-angled tooth trowel was used to apply PCI Carraflott NT to the back of the natural stone slabs that were then tapped into place in the fresh single grain mortar. Wyß and his team then grouted the whole area with the PCI Pavifix 1 K Extra special joint grout. Installed in this way, the patio is impervious to all climatic and mechanical stresses.

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Object Data

Object:	Newly built villa in Krefeld
Subtitle:	Architectural highlight with generous natural stone flooring
Location:	Krefeld
Year of completion:	2012
Task:	Tiling in a timeless modern house with guest apartment and garage
Object size:	450 m ² living and floor space, 200 m ² patio
Products used:	PCI Gisogrund, PCI Gisogrund Rapid, PCI Nanoflott Light, PCI CarrafloTT NT, PCI Carrafug, PCI Pecilastic U, PCI Rapidlight, PCI Lastogum, PCI Pecitape, PCI Silcoferm S, PCI Flexfug, PCI Seccoral 2K Rapid, PCI Pavifix DM, PCI FT Flex, PCI Pavifix 1 K Extra
Design:	Georg von Houwald, Krefeld
Installer:	Fliesen Wyß, Benjamin Wyß, Krefeld
PCI Service Technician:	Christian Kollmeyer
PCI Technical Consultant:	Hermann Gajowczyk
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Images:

(Purpose of download: Press)



The timeless modern town villa is situated on a plot with a south-western orientation in the sought-after Krefeld Stadtwald residential area. Due to building regulations, the building was constructed to the rear of the plot, with the garden and access at the front.

Picture credit: Photographer / architect Georg von Houwald

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Architect Georg von Houwald has skilfully integrated the contrast between lightness and weight in his design. At the front, the upper floor appears to hover above the ground floor. The set back upper part of the building creates space for a circumferential, secluded rooftop patio.

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The Krefeld tiling professionals not only laid the 50 x 80 cm quartzite natural stone tiles throughout the ground floor, they also tiled the adjoining patio behind the floor-to-ceiling windows with tiles of the same size. The generous, continuous tiling concept supports the spacious, bright impression of the rooms, in particular in the living area.

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The dynamic interconnection of interior and exterior is one of the architectural principles of the modern residential building. The effect: a lot of natural light and an open view of the outdoor area.

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- At the heart of the basement is the luxurious spa area with the 350 x 350 cm large jacuzzi, sauna and fitness room. Transparency and natural light also define the architectural concept here. Discreet lighting supports the high-quality ambience.

Picture credit: PCI Augsburg GmbH

- (Alternative image)



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In the round shower area a stepped mosaic on the wall adds a little extra something.

Picture credit: PCI Augsburg GmbH

(Alternative image)



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A Schlüter single grain mortar membrane is laid before a 5 cm layer of PCI Pavifix DM drain and screed mortar is applied.

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Step by step, the patio takes shape. In order to ensure optimum adhesion, the tilers apply CarrafloTT NT to the back of the natural stone with 6 mm toothed trowel. The slab is then turned over and tapped into place in the fresh Pavifix DM mono grain screed.

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The Pavifix DM is mixed with water in a free-fall mixer before being applied to the single grain mortar membrane in a 5 cm thick layer.

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Accuracy comes first: once a 5 cm thick layer of PCI Pavifix DM has been applied, Benjamin Wyß checks the evenness of the surface.

Picture credit: PCI Augsburg GmbH

About PCI

PCI Augsburg GmbH is part of the business unit Construction Chemicals of BASF and leader in the tile laying materials sector for specialist firms in Germany, Austria and Switzerland. In addition, the company supplies product systems for waterproofing, concrete protection and repair, as well as a complete product range for the soft flooring sector. PCI employs a staff of about 800 and generated sales of over €200 million net in 2013. Further information about PCI on the Internet under www.pci-augsburg.de.

About BASF

BASF is the world's leading chemical company: The Chemical Company. Its portfolio ranges from chemicals, plastics, performance products and crop protection products to oil and gas. We combine economic success with environmental protection and social responsibility. Through science and innovation, we enable our customers in nearly every industry to meet the current and future needs of society. Our products and solutions contribute to conserving resources, ensuring nutrition and improving quality of life. We have summed up this contribution in our corporate purpose: We create chemistry for a sustainable future. BASF had sales of about €74 billion in 2013 and over 112,000 employees as of the end of the year. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (AN). Further information on BASF is available on the Internet at www.basf.com.

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