

Object	Professionals among themselves
Subtitle	Büttner Massivhaus GmbH: Use of PCI products in new company buildings
Place	Plech, Germany
Period of execution	2011 / 2012
Task	Laying and grouting of large-size tiles on floor and walls and integrating a natural stone facing
Object size	850 sq. m
Products used	PCI Gisogrund, PCI Apogel F, PCI Pericret, PCI Pecilastic U, PCI Rapidflott, PCI Pecitape, PCI Seccoral 1 K, PCI Pecilastic, PCI Novoment M1, PCI Repahaft, PCI Carrament, PCI Lastoflex, PCI Rapidflott, PCI Rapidfug, PCI Nanolight, PCI Geofug
Client	Wohnhausbau Büttner Massivhaus GmbH, Plech, Germany
Architect / Site manager	Wohnhausbau Büttner Massivhaus GmbH, Plech, Germany
Company	CASA-Bau GmbH, Hummeltal, Germany
Expert advice	Mr Winfried Schuster, PCI applications engineer

Description

For more than 23 years now, Wohnhausbau Büttner Massivhaus GmbH has been in the business of building solid construction turnkey houses at fixed price. With the company building inaugurated in January 2012, the general contractor consistently implemented the corporate philosophy which calls for architecturally appealing and state-of-the-art house construction. In particular, the laying of large-size tiles required a professional approach for the interior finishing. CASA-Bau GmbH of Hummeltal accepted this challenging task and carried it out with the aid of special products and on-site advice provided by PCI Augsburg GmbH. On an area of approx. 850 sq. m, floors and walls were laid with large-size ceramic tiles. The natural stone facing applied in the entrance area and cafeteria proved to be a real eye-catcher.

The application of PCI tiling products was planned by applications engineer Winfried Schuster, adapted to the various requirements of the respective sections: All sub-floors were first grounded with the protecting bonding primer **PCI Gisogrund**. The experts used the two-component epoxy resin **PCI Apogel F** to achieve force fit grouting of cracks which had appeared only after the first sanding operation. **PCI Pericret** was used for sub-floor levelling operations. Even at low temperatures, the fast setting levelling grout can be worked on after only a few hours. The waterproofing in all wet areas was achieved with **PCI Pecilastic U**. Regardless of format, the novel waterproofing and isolating membrane can be used under all ceramic and natural stone floorings offering system-tested reliability for wet areas with non pressing water at floor level (AB0 and C). The sheets were laid edge to edge into the **PCI Rapidflott** adhesive bed and pressed on with a rubber roller. The sheet joints and the floor/wall edges were waterproofed with **PCI Pecitape** and **PCI Seccoral 1K**. Likewise, **PCI Seccoral 1K** the flexible waterproofing slurry was used for the floor drains in sanitary areas, along with the special waterproofing tape **PCI Pecitape**. The isolating membrane **PCI Pecilastic** was used for preparatory work in the entrance area and cafeteria. The quick-setting cement screed mortar **PCI Novoment M1** facilitated concreting the stairs, and enabled a prompt sequence of work, since, after only one day, ceramic laying could be started. The CASA-Bau crafts team took advantage of this product feature when they used the mortar primer coat **PCI Repahaft** for creating the recess for the doormat wet on wet with **PCI Novoment M1 plus**.

Objektbericht: BüttnerMassivhaus_kurz

Freigaben: siehe lange Fassung von Büttner Massivhaus

After completion of the levelling and waterproofing operations, the large-size tiles as well as the natural stone facing ECOPIEDRA in the entrance area and cafeteria were laid in the medium-bed with **PCI Carrament** blended with the polymer-modified additive **PCI Lastoflex**. For time-critical adjacent sections, the specialists relied on **PCI Rapidflott**, the plastic, pourable bedding mortar which can be walked on after only 3 hours. The fast-curing feature was also appreciated when applying the quick mortar **PCI Rapidfug** for grouting operations. In line with the requirements for sanitary areas, the low-dust and very low-emission flexible mortar **PCI Nanolight** was the product of choice for wall tiling in the toilets. Finally, the one-component convenience grout **PCI Geofug** was used for grouting. After not quite eight weeks construction time, the CASA-Bau crafts team completed all work on schedule and to the utmost satisfaction of the client.