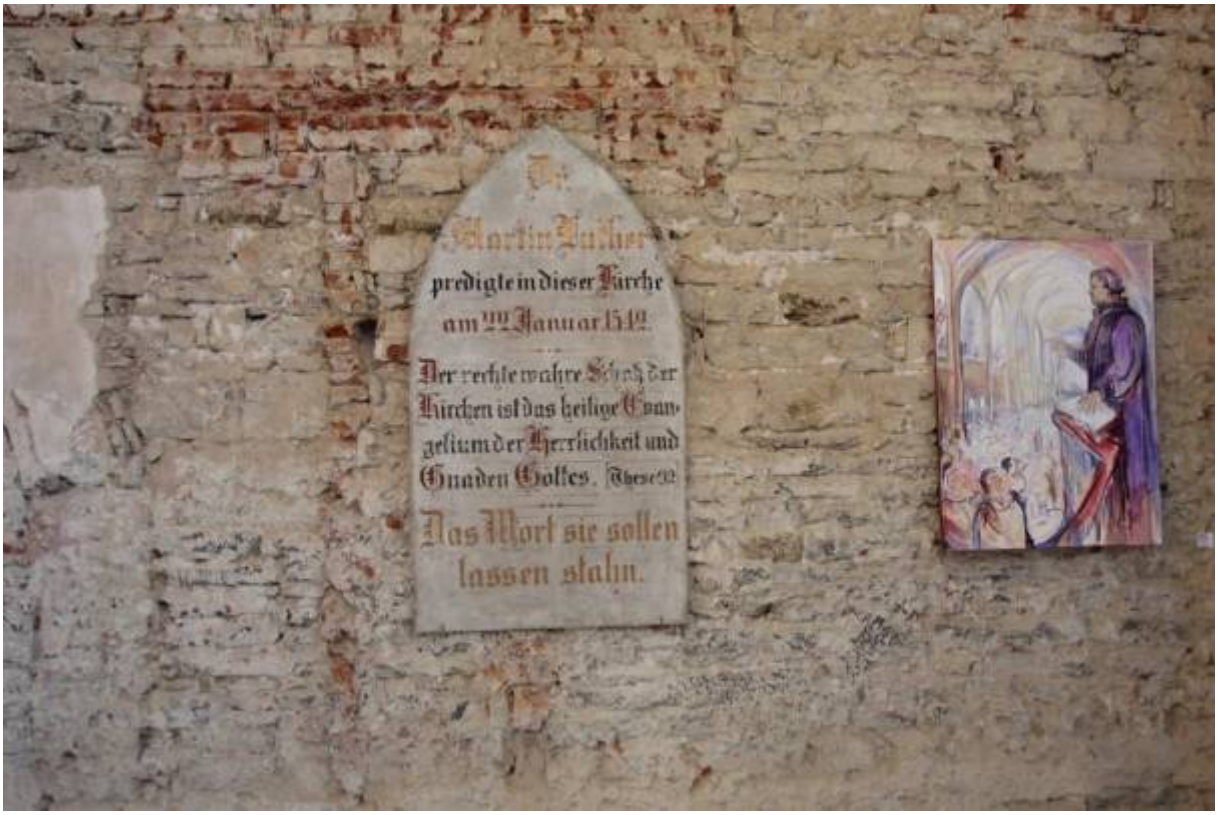
Property	**Franciscan monastery church**
Date	2011
Location	Zeitz
The task	Renewal of the floor in the monastery church
Property size	450 m²
Products used	PCI Nanocret 70 (replace 2012 in product range by PCI Nanocret R3), PCI Gisogrund 404, PCI armour mat GFS, PCI Zemtec 1K, PCI armour mat GFM, PCI Zemtec Top
Client	City of Zeitz
Architect	Dipl.-Ing. Oliver Kaptain, freelance architect
Companies	Heidrich Estrich Bau, Bad Klosterlausnitz Baubetrieb Buzalski GmbH, Zeitz o'color Meisterbetrieb des Maler- & Lackiererhandwerks, Bad Köstritz Willi Jebok Maschinenbau Baumaschinen OHG, Chemnitz
Technical consulting	PCI applications engineer Stefan Hofmann PCI consultant Jörg Schulze

Venerable church nave receives a strong substrate

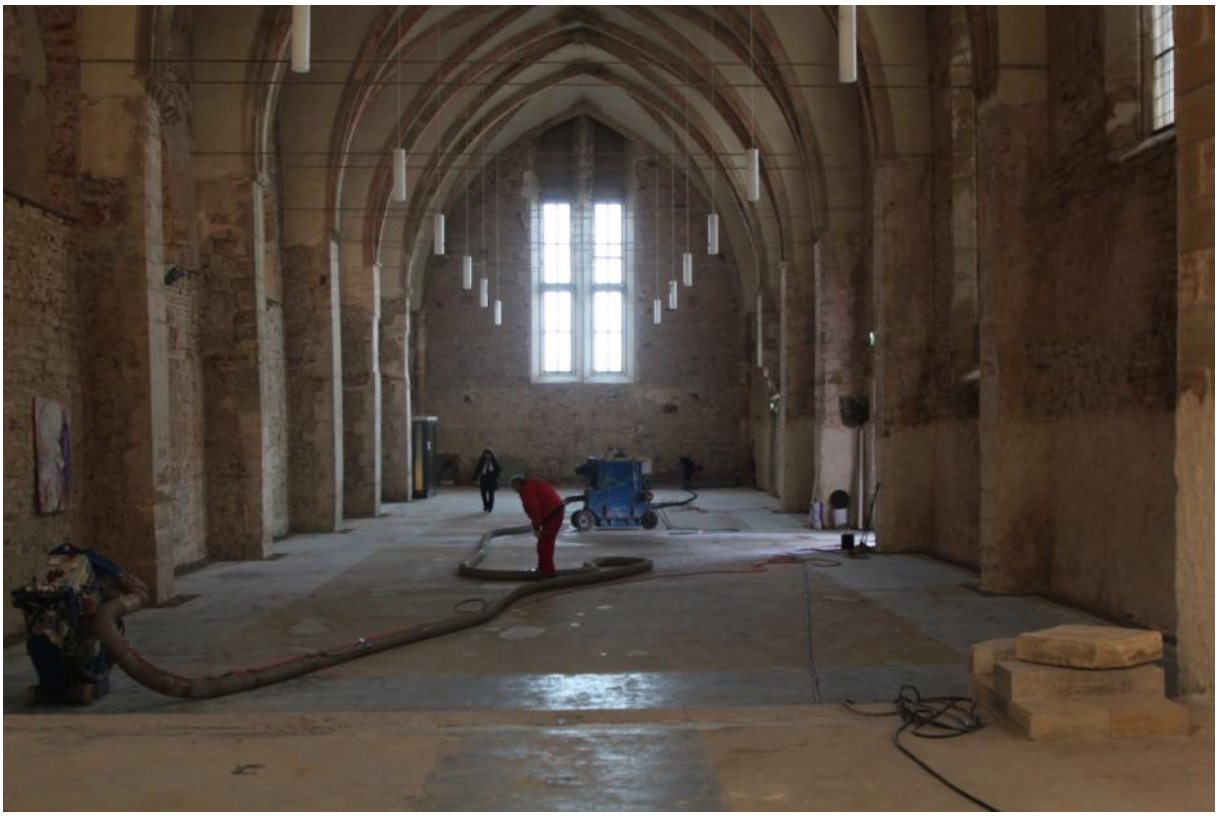
The Franciscan monastery on the south edge of the old city region of Zeitz is one of the best maintained monasteries in Saxony-Anhalt. The city has been using the monastery church as a popular event location since 2011. After the first events, the screed over the irregular sandstone pavement was found to have some defects, extensive hollow layers and cracks. The floor of the monastery church was therefore renovated across an area of 450 m². First of all, all bonding-inimical layers and contamination were removed by steel ball shotblasting. The construction professionals re-profiled the defects with the stable repair mortar PCI Nanocret 70 (replaced by PCI Nanocret R3). After the re-profiling, the workers primed the area, building a film with two applications of PCI Gisogrund 404. In order to strengthen the flexural strength of the subsequent floor levelling compound, two armour mats were used: The PCI armour mat GFS was applied at right angles 60 cm from the working joints, the PCI armour mat GFM was laid across the entire area. The glass-fibre mats guarantee uncomplicated installation and therefore rapid construction progress. The construction professionals fixed the glass-fibre reinforcement in the area of the working joints with the cement-based floor leveller PCI Zemtec 1K and also pumped this product over the entire floor surface to create a layer thickness of 10 mm. In order to lighten the surface appearance and to achieve a suitable overall ambience, the renovation was completed with a glaze through the application of the dispersion-based sealing PCI Zemtec Top. This has made the

floor particularly resistant against light rubbing and rolling loads, as well as being anti-skid - ideal therefore for the purposes of the Zeitz church.

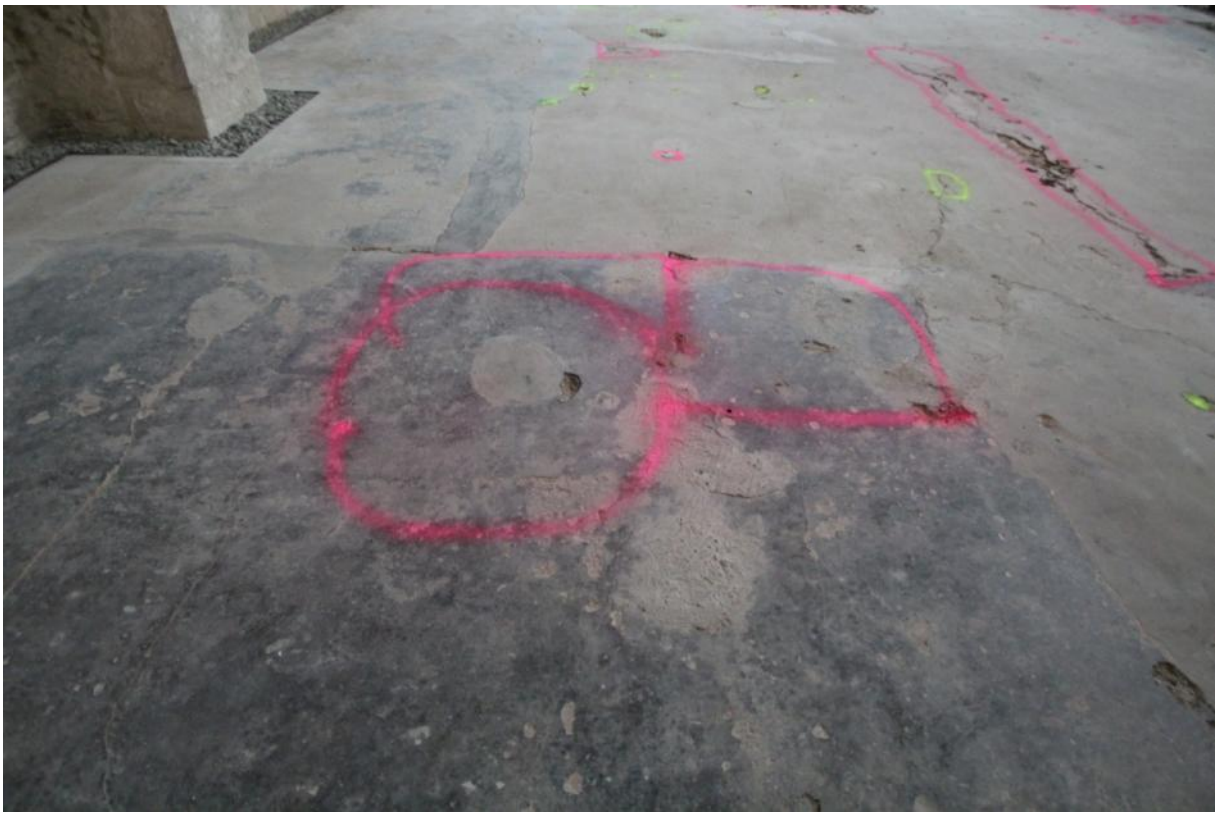
Pictures



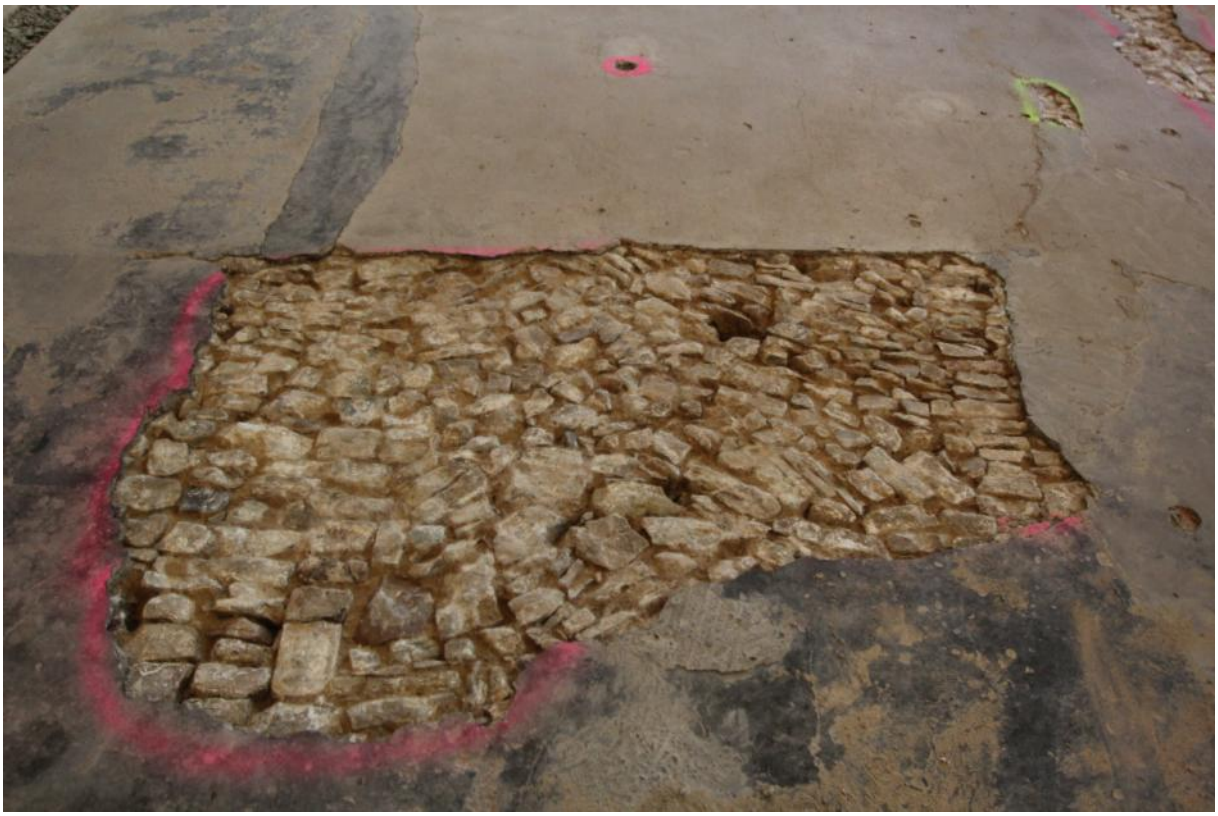
The church of the Franciscan monastery in Zeitz looks back over a long tradition – even Martin Luther preached here, as the commemorative plaques show. The now deconsecrated church was built from the 13th century onwards and still retains a great part of its medieval building structure.



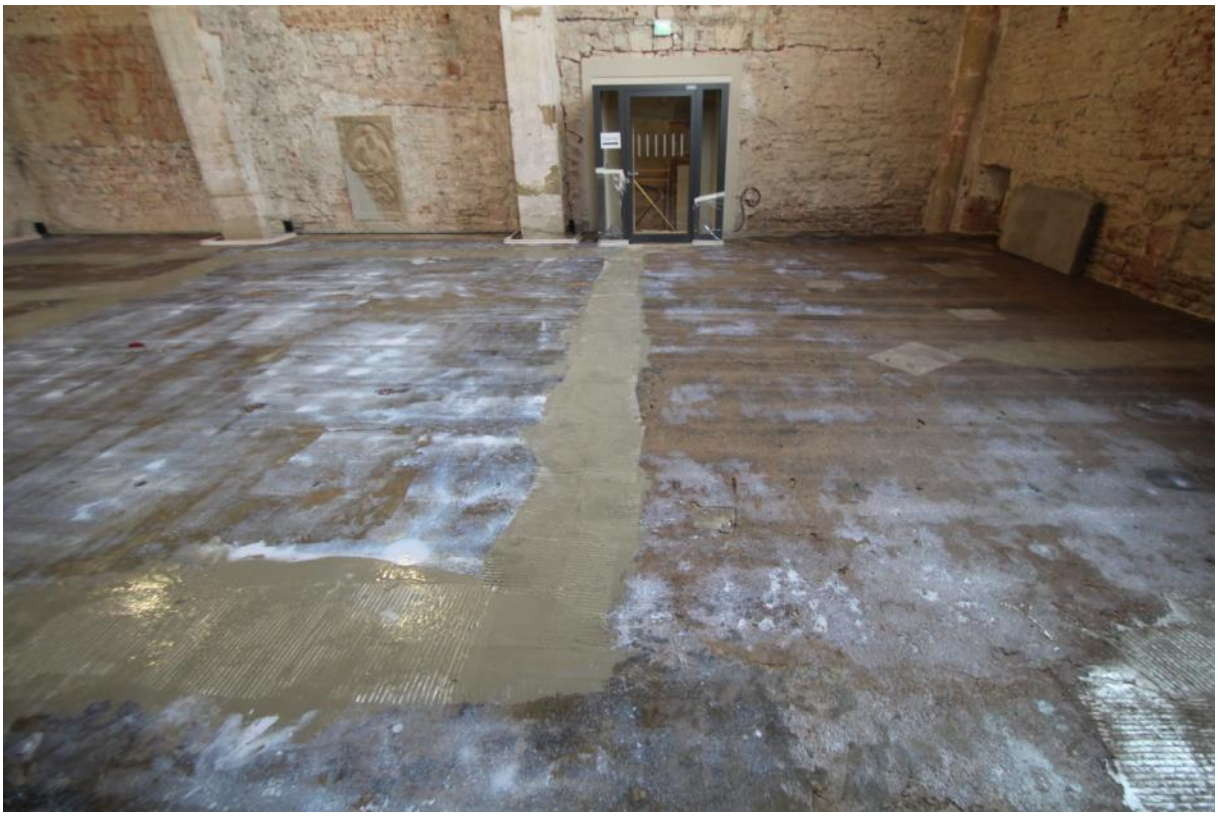
All bonding-inimical coatings and contamination were removed by the workers using steel ball shotblasting before re-profiling the defective areas with a stable repair mortar.



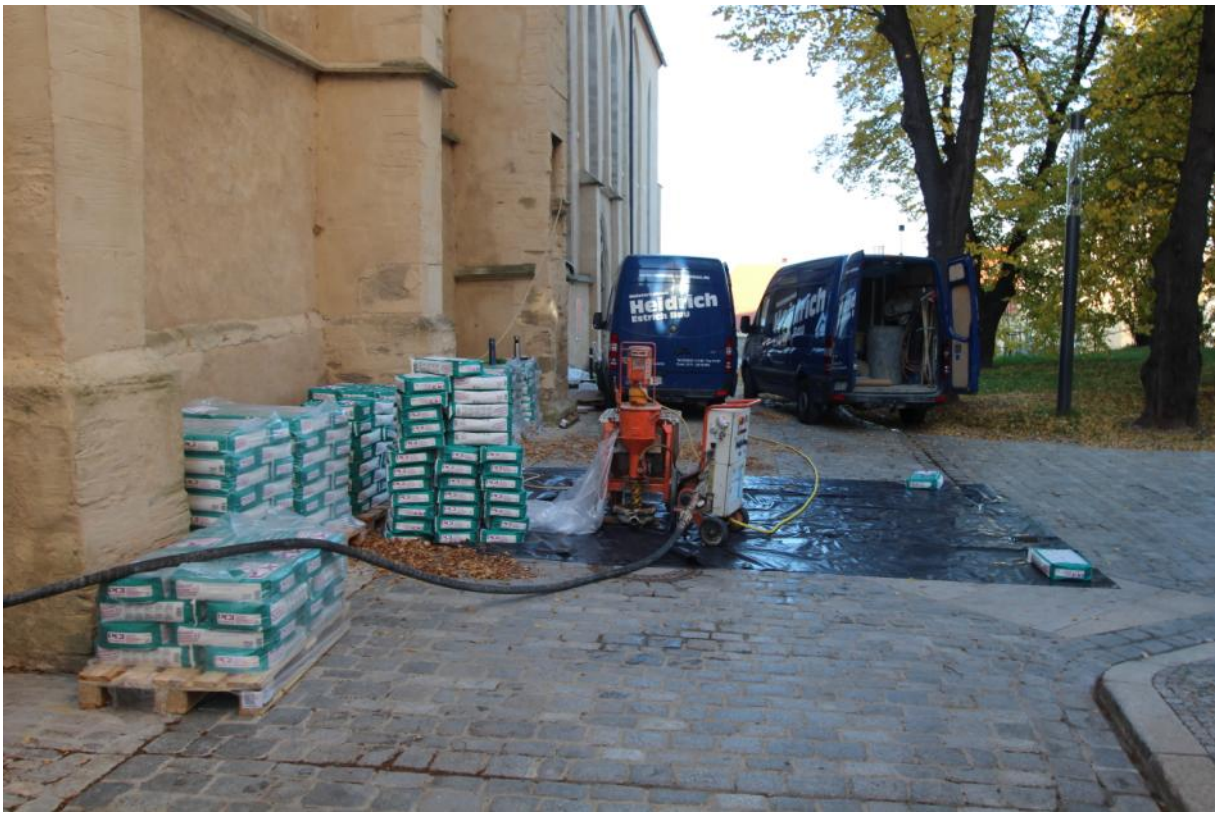
The preparatory work for the floor renovation in the Franciscan church included the marking of defects, extensive hollow layers and cracks in the substrate. This ensured that no damage was overlooked.



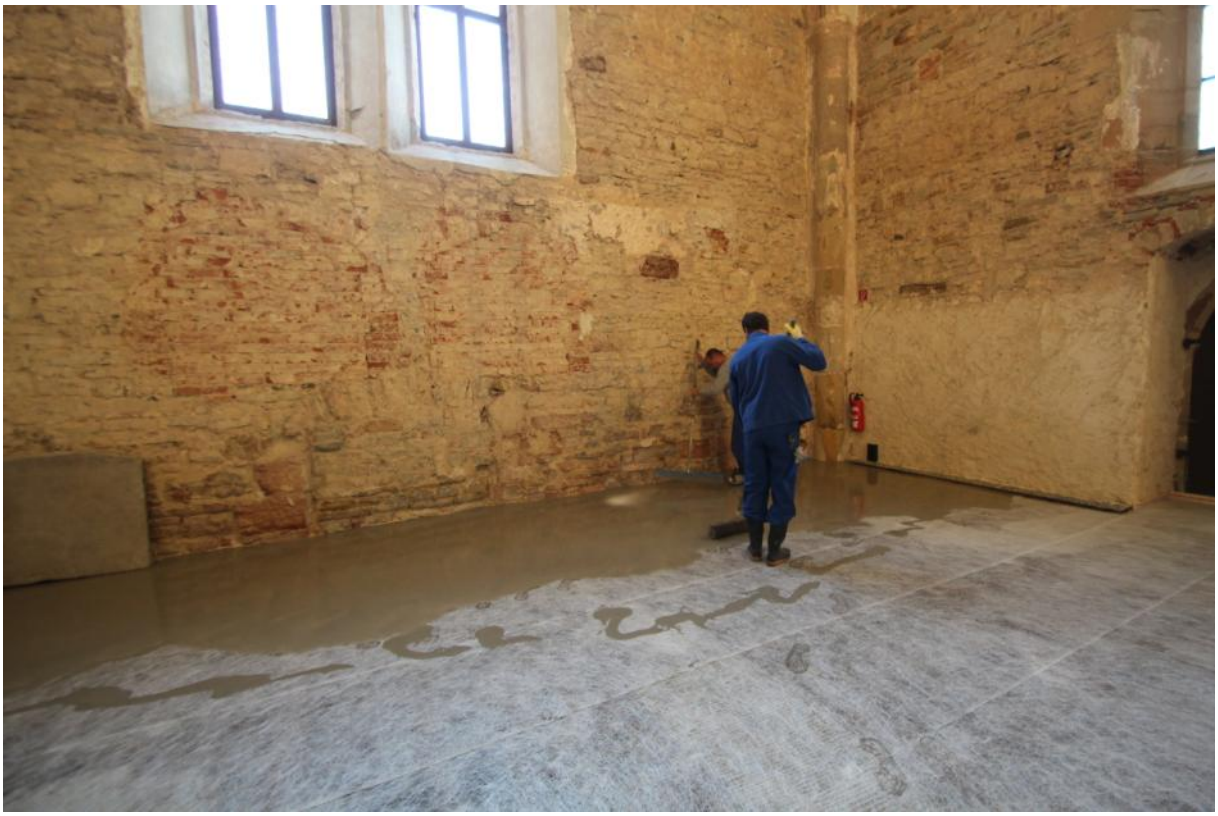
Historical paving was located under the existing screed, which was present in various qualities. This paving needed to be retained under all circumstances. After the necessary removal of damaged areas, the construction professionals were able to re-profile the substrate.



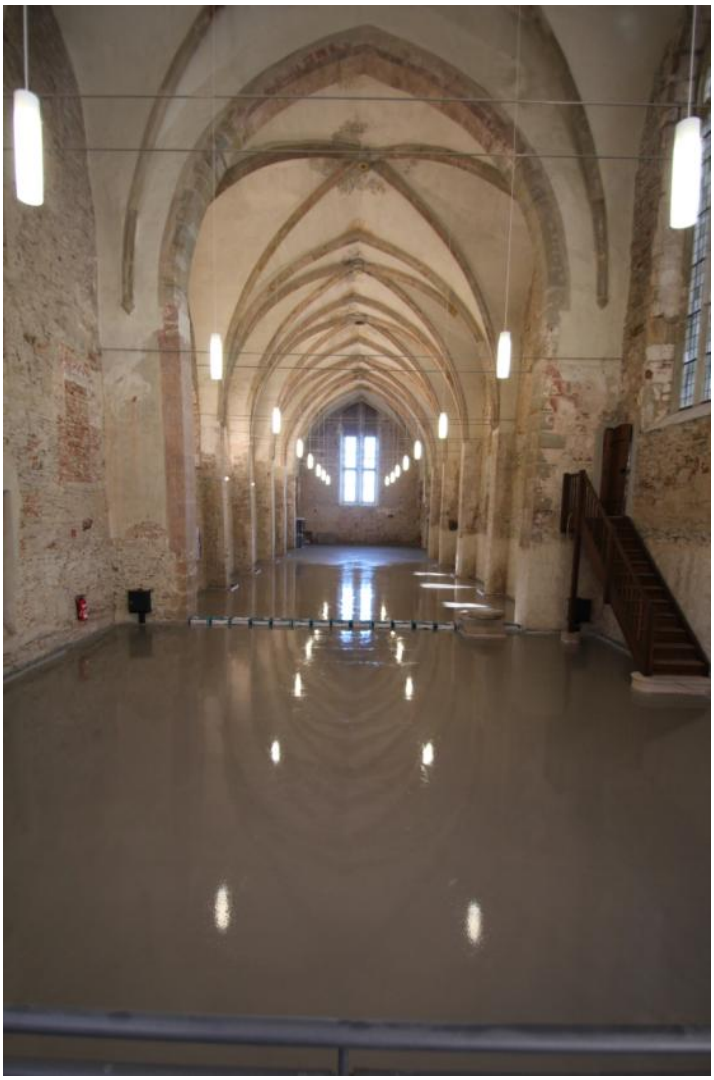
The special wash primer PCI Gisogrund 404 was applied to the re-profiled floor in two layers. The violet control colour of the synthetic resin dispersion enables precise application. This allowed the construction professionals to create a solid adhesive bond for the next layer.



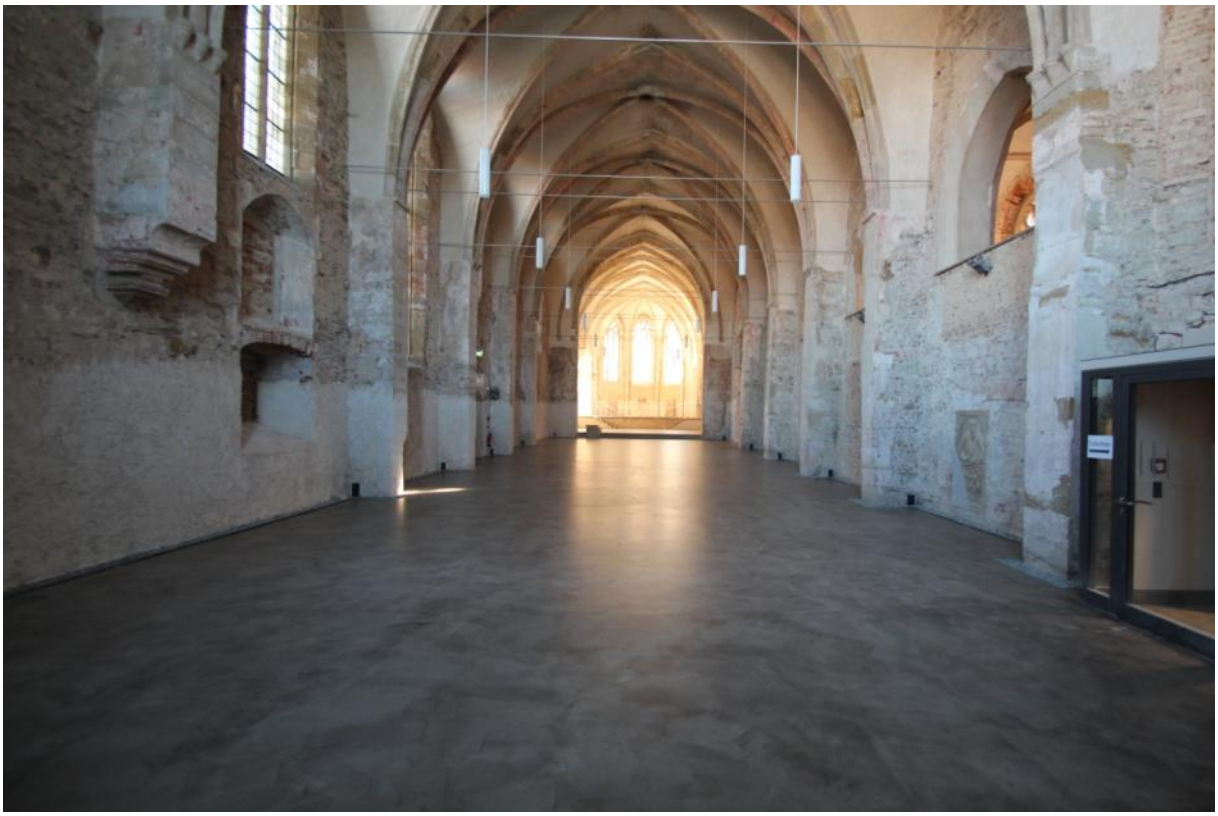
The team, under Andreas Heidrich, processed in total around eight tonnes of the cement-based floor leveller PCI Zemtec 1K. In order to achieve a high work output, the workers pumped the product into the interior of the church.



The construction professionals smoothed and removed the air from the floor levelling compound with the help of spiked rollers. As the product flows easily, it can be simply processed with little work outlay.



In total, the firms processed a floor area of 450 m². The aim of creating a smooth and sealed surface was achieved to the satisfaction of everyone concerned mainly due to the smooth cooperation of all persons involved.



To complete the floor renovation, the dispersion-based sealing PCI Zemtec Top was applied as a glaze. This achieved a variegated surface appearance. In addition, the substrate in the Franciscan church is now anti-skid and wear-resistant - and ready for future events.