



SIKA AT WORK

RENOVATION HYDROPOWER PLANT, EGLISAU, SWITZERLAND

BUILDING TRUST



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The levelling layer was ready 24 hours later.



The decoupling mat Sika® Permat is being installed.

PROJECT DESCRIPTION

The hydropower plant Eglisau-Glattfelden was built from 1915 to 1920. Since 1988, it has been listed among the buildings worthy of protection in the canton of Zurich. In 2012, an investment in new machine groups was done to increase power production by 30%. Furthermore, the building was partly renovated. The ceramic tiling, which had been laid on a thick-bed, was removed and re-designed.

REQUIREMENTS

- The tiled floor had to remain identical to the old version regarding aesthetics
- Levelling of the existing concrete floor
- Fast construction progress
- No damage of surface through vibration of running turbines, no damage of mixed substrates (re-shaped concrete with cutted steel installation components)
- Efficient floor structure
- Highly mechanically resistant floor covering, in order to withstand turbine components, which are used for maintenance works

SIKA SOLUTION

After the subsurface preparation, about 45 tonnes of Sika® Level-340 were installed within 4-5 hours using pumps. Already 24 hours later, the levelling layer was ready for tiling. With a conventional screed, this process would have taken 28 days. To withstand high point loads and to avoid transmission of vibrations to the surface material, the decoupling mat Sika® Permat was installed. Afterwards, stoneware tiles (150 x 150 x 13 mm) were laid diagonally as cross joints on 850 m².

SIKA PRODUCTS

- Sikadur®-52 Injection
- Sika® Primer-10 W
- Sika® Level-340
- SikaCeram®-252 Flex Rapid
- Sika® Permat
- SikaCeram®-217 Fibre
- SikaCeram®-502 TG Flex
- Sikaflex® PRO-3WF

PROJECT PARTICIPANTS

Architectural office: Architektengruppe Architektur & Baumanagement, Aarau

Tile setter: Eduard Meier Plattenbeläge AG, Bülach

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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