



SIKA AT WORK

WATERTIGHT UNDERGROUND CONCRETE CONSTRUCTION IN WROCŁAW CENTER FOR REHABILITATION AND SPORTS MEDICINE

SIKA TECHNOLOGY: Sika® Watertight Concrete System

BUILDING TRUST



WATERTIGHT BELOW GROUND LEVEL CONSTRUCTION IN A MODERN MEDICINE FACILITY

WROCLAW CENTER FOR REHABILITATION AND SPORTS MEDICINE

is one of the most modern medical centers in Poland. On the area of about 12 700 m², a rehabilitation center, a hospital with operating rooms and a diagnostic center will be located. The newly built medical facility in Wrocław will provide both daily rehabilitation services and surgical procedures allowing the assistance of even greater number of patients – the hospital will support from 1500 to 1800 people every day. The Center will also offer patients specialist clinic and a comprehensive diagnostic laboratory.



PROJECT REQUIREMENTS

The underground concrete structures needed to be fully watertight to prevent damage due to moisture or water ingress into rooms located below ground level.



HIGH QUALITY CONCRETE MIX: SIKA® WATERTIGHT CONCRETE SYSTEM

SIKA SOLUTIONS

To meet the requirements of overall tightness of the underground construction, "white box" technology was used. The "white box" is a system consisting of a complete watertight concrete mix design (**Sika® Watertight Concrete**) together with appropriate joint waterproofing solutions. To ensure the appropriate level of watertightness, it also provides general recommendations and guidance on the concrete mix design, construction and concreting. The "white box" technology has the additional advantage of relatively simple and fast installation without additional protection of the waterproofing materials being required. This is therefore also an extremely cost efficient solution.

For the construction of underground structures, Górazdze Beton supplied about 1100 m³ of **Sika® Watertight Concrete** – it is a special, high-quality concrete mix which is impermeable to water. In this project the concrete mix was modified by the following concrete admixtures:

- superplasticizer **Sika® ViscoCrete® 3088 M**
- crystalline and pore blocker **Sika® WT-200 P**.
Sika® WT-200 P consists of special components. These active components form non-soluble materials throughout the pore and capillary structure of the concrete and seal the concrete permanently against penetration of water.





PROJECT PARTICIPANTS

Owner: Hasco-Lek

Investor: MEDICO-INWESTMENT Sp. z o.o.

Architect: APA HUBKA

Main Contractor: Awbud

Concrete Supplier: Górażdże Beton

Sika Poland engineer: Kamil Morga

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Please consult the most current local Product Data Sheet prior to any use.



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