Drinking water tower

Porta Westfalica



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Type of building:
Elevated tank for drinkable water

Clients and Developers:
Stadtwerke Porta Westfalica GmbH
www.stadtwerke-porta-westfalica.de

Engineers/ Specialist Planners:
Steinbrecher + Gohlke, Porta Westfalica
www.steinbrecher-gohlke.de

Building contractor:
Kögel Bau GmbH & Co. KG Bad Oeynhausen
www.koegel-bau.de

Completion:
2011

Zemdrain® CPF liner was used for a low-pore surface of the concrete walls in the Essen water treatment plant.

The significantly greater capacity of 2,000 cubic meters means that not only the quality of the drinking water but also its supply can be improved. "Kreuzplatz" on the ridge of the Weser Mountains was found to be the optimum location for the drinking water tank. The site is around 20 meters higher than the highest building, which guarantees optimum pressure conditions even to the limits of the supply network.

The drinking water tank consists of two concentric chambers. It used around 85 tons of reinforcing steel and 900 cubic meters of concrete. Zemdrain® CPF liner was used to create a low-porous concrete surface on the inner walls and floor, which reduces the growth of microorganisms and guarantees the best quality drinking water.

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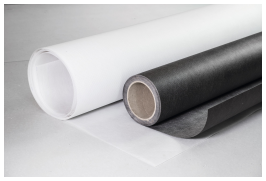
Products used:



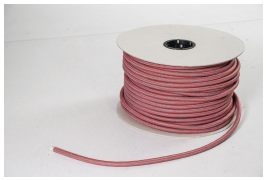
Fibre concrete distance tubes



Fibre concrete sealing cones



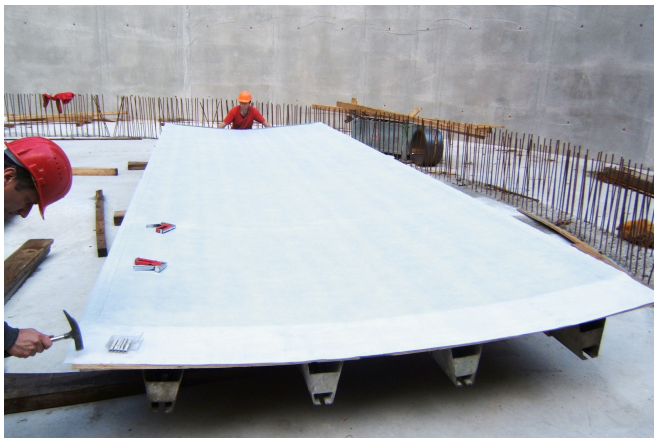
CPF liner Zemdrain®



Injection hose system Intec®



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