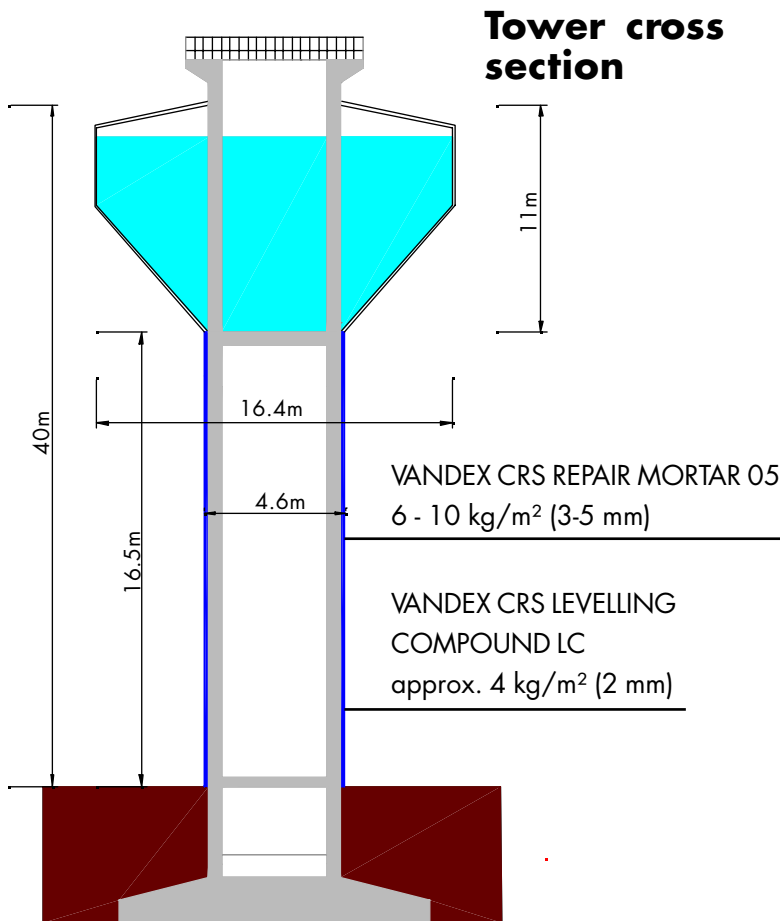


Elevated Reservoir Altenburg, Germany

Project Name: Elevated Reservoir Altenburg
City: Altenburg
Country: Germany (Thüringen)
Owner: Energie- und Wasserversorgung Altenburg GmbH, Altenburg
Engineer: Ing. Büro Peuker & Nebel GbR
Main Contractor: WBB Bau & Beton GmbH Umpferstedt
Vandex Applicator: Rickowski & Apel GmbH
Construction Period: 2000



Job Considerations:

The town of Altenburg is located 45km south of Leipzig, and is famous for a special game called "Skate", which was invented there in 1810.

This elevated water tower provides water to Altenburg's 47,000 inhabitants. It was erected in 1964 and is 45m high. The Reservoir contains 1000 m³ potable water.

After 35 years in use, the concrete surfaces are substantially corroded.

The VANDEX Solution:

The concrete repair and protection work were carried out in accordance with the following concept:

- Substrate preparation using sand blasting
- Corrosion protection of reinforcement with VANDEX CRS CORROSION PROTECTION AC
- Reprofiling with VANDEX CRS REPAIR MORTAR 05 providing cover of 10 mm to reinforcement
- Levelling the surface finish with VANDEX CRS LEVELLING COMPOUND
- Curing

In order to ensure the best possible climatic conditions for curing, the tower was covered with a protective tent whilst the work was carried out.

Technical Information

Products Used: VANDEX CRS REPAIR MORTAR 05
 VANDEX CRS CORROSION PROTECTION AC
 VANDEX CRS LEVELLING COMPOUND LC

Areas Treated: Exposed concrete surfaces
Equipment: Fine mortar spray equipment (Putzmeister S5)
Total Treated Area: 400 m²



The tower before the start of the refurbishment work



Scaffold around the tower



Skilled workmanship by hand is a very important part of the final result



The tower was totally covered in order to provide protection for the refurbishment work



Finishing of VANDEX CRS LEVELLING COMPOUND LC



View of the finished refurbished watertower