

## DRINKING WATER SUPPLY SYSTEM, MOSCOW, RUSSIA

# 17 MAJOR RESERVOIRS IN MOSCOW REFURBISHED WITH VANDEX PRODUCTS



Water treatment plant at the Kurjanovo Aeration Station, the largest in Europe, in the process of refurbishment.



**S**ince mid-nineties, *Mosvodokanal, the water supplies and sewage systems authority of the City of Moscow, carries out a comprehensive maintenance program on drinking water facilities.*

Seventeen major drinking water reservoirs in Moscow, with a vast total capacity of 700 million litres, were completely refurbished on the inside with Vandex specialised products, so as to ensure the quality of the water.

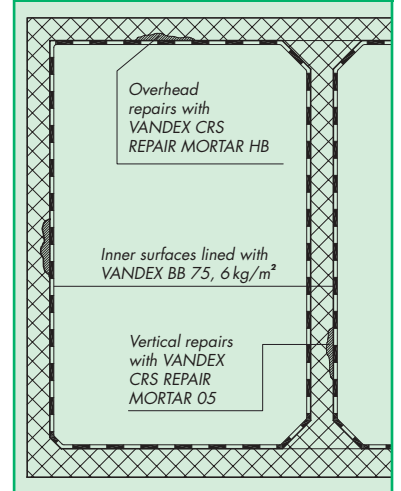
The reinforced concrete structures and their inner surfaces to be renovated, required a varying degree of concrete repair work, as well as a new lining and protection system for floor, walls, columns and ceiling surfaces that is approved for use in drinking water. The program also includes refurbishment of water treatment plants where large volumes of Vandex system products are being applied.

### THE VANDEX SOLUTION

*The concrete repair and lining work at the various reservoirs is carried out in stages in accordance with the following concept.*

- All structural damage needed to be repaired prior to the application of the waterproofing and protective lining.
- Ceiling: Overhead concrete repair using VANDEX CRS REPAIR MORTAR HB with a layer thickness of up to 50 mm in one application.
- Walls, columns, floor: Concrete repair using VANDEX REPAIR MORTAR 05 with a layer thickness of up to 50 mm in one application.
- Lining of the entire inner reservoir surfaces of ceiling, walls, columns and floor with VANDEX BB 75, applied at a rate of 6 kg/m<sup>2</sup> in 2 layers in an easy-clean finish.

### CROSS SECTION OF DRINKING WATER TANK



**Owner:** Mosvodokanal, City of Moscow, Russia  
**Engineer:** Triada Holding, Moscow, Russia  
**Main Contractor and Vandex Applicator:** Triada Holding, Moscow, Russia