



UPOV Zaprešić Wastewater Collection & Treatment Plant



ABOUT THIS PROJECT:

Market Segment:
General Construction

Location:
Zaprešić, Croatia

Products Used:
Xypex Admix C-1000NF
Xypex Modified
Xypex Concentrate
Xypex Patch'n Plug

The UPOV Zaprešić project involved the construction of new wastewater treatment and collection structures that required reliable performance under continuous exposure to wastewater, moisture, and aggressive environmental conditions. Ensuring long-term watertightness and durability of the concrete elements was critical to meeting operational and service-life requirements.

To address these demands, integral concrete waterproofing was specified for the concrete structures to limit water ingress, improve durability, and reduce dependence on surface-applied systems. The concrete was designed using grades C30/37 and C35/45 and classified for exposure to carbonation, chlorides, chemical attack, and freeze-thaw conditions.

Xypex crystalline waterproofing products were incorporated across key application areas, including treatment and collection structures. Xypex Admix C-1000 NF was used as an integral component of the concrete mix, while Xypex Concentrate, Xypex Modified, and Xypex Patch'n Plug were applied where required to support watertight construction details and localized treatment.

As a result, the concrete structures achieved improved durability resistance to water penetration and aggressive exposure conditions. The integrated approach supports long-term watertight performance, crack self-healing, and reduced maintenance requirements, extending the operational lifespan of the wastewater treatment facility through consistent, reliable performance.

