



TGW-Marchtrenk 2 (AT) Sprinkler Tanks

Country	Austria
Type	Water & Sprinkler Tank, Reservoir
Client	TGW Holding GmbH
Execution of the work	Renesco GmbH
Construction Period	2025

Project Description

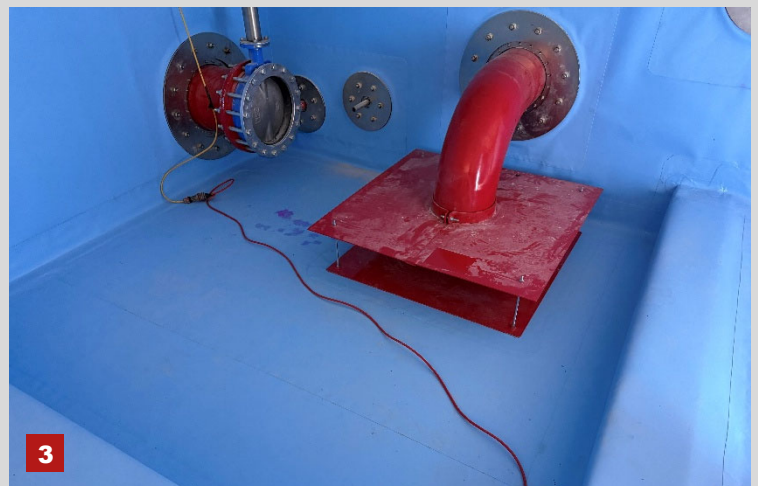
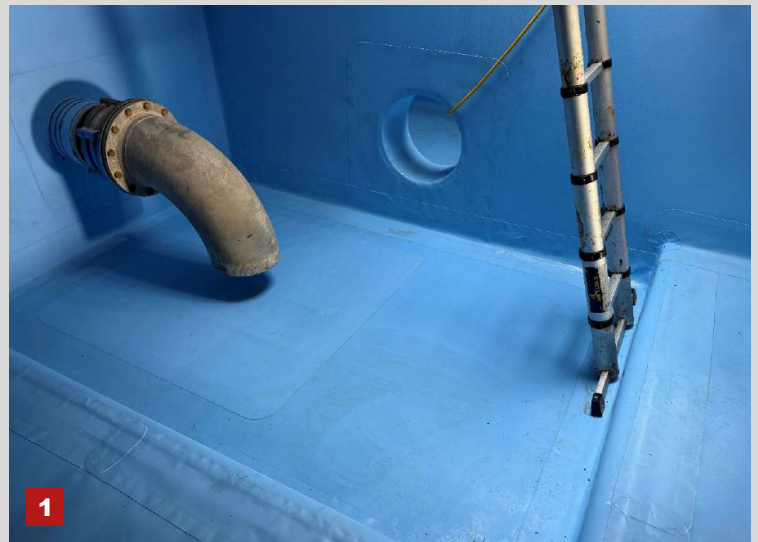
The TGW Evolution Park in Marchtrenk, opened in 2018, currently comprises a 125-meter-long office building and two production halls. By summer 2026, an additional 20,000 m² production building and a highly automated storage system for pallets and containers with a footprint of 6,700 m² will be completed. Mobile robots, which move completely autonomously to their destinations, will supply the assembly workstations with components.

In view to the construction two existing sprinkler tanks are used to go rehabilitated and two new reservoirs have to be waterproofed with a geomembrane system. Hereby the waterproofing system is in direct contact with water. It must fulfil stringent requirements regarding hygiene, durability, exposure and stress conditions, construction method and sequence, ease of application and total cost management.

Scope of Service

Structural waterproofing of reservoirs and tanks sealed with a polyethylene (PE) waterproofing geomembrane/geocomposite under a water pressure head, fully exposed to the inside water face and fixed via loose-flange stainless-steel construction/ termination to form watertight compartments.

- 1'300m² FPO-PE geomembrane, reinforced and laminated with a 500g/sqm PP geotextile, 1.5mm certified according to ÖNORM EN 13361 and ÖNORM 13967 as well as DVGW W 270 (German guideline)
- Fastening via discs/ roundels and hook & loop (Velcro) System
- Manufacturing a pump sump with mechanical fixing
- Drainage mat, polypropylene, 6mm
- Inlet & outlet pipe connections, Pipe penetration with flanged connections up to DN 820, loose-steel flange termination/ clamping
- Wall membrane termination with Stainless steel profile



1. Old Sprinkler Tank including inlet pipe connections
2. Overview - New Sprinkler Tank
3. Inlet & Outlet pipe connections