

HOBAS® Pipes Withstand Salt and Chlorine in Chemical Plant – Fertilizer production facility equipped with new wastewater pipeline, UA

In South Ukraine, at a port on the Black Sea coast, 388 m HOBAS Pipes DN 400 were installed in a chemical plant to safely discharge industrial wastewater.

The Odesa Port Plant is a chemical facility at the Black Sea in South Ukraine that produces fertilizers. The existing stainless steel pipeline could no longer withstand the high content of salt and chlorine in the treated industrial sewage and the joints started to leak. Therefore, a new state-of-the-art pipeline was needed. The new pipeline had to be installed partly above ground on the overpasses inside of the factory's wastewater treatment plant, partly in an open trench, and partly via relining. The route of the pipeline included complex pressure bends and reducers. Fixing these parts of the pipeline in place with concrete blocks was not an option. Furthermore, lamination on site, locked joints, and flanges were too expensive.

The answer to this challenging project was HOBAS Products: HOBAS Experts worked closely with the planners of the Odesa Port Plant to come up with a reliable, technologically convenient, and economical solution. HOBAS' Expertise together with the excellent mechanical properties, corrosion and chemical resistance of the products, as well as their ability to withstand UV radiation convinced the client to choose HOBAS CC-GRP Products. Pipes and fittings were joined with standard FW couplings and fixed in place with materials that were locally available.

The most challenging part was the section inside the building where pipes had to be installed on overpasses including 6 bends, inlets, and reducers working under 2 bar pressure. Standard couplings for the suspended pressure pipeline allowed for a very easy and fast installation in this case, which was crucial for saving costs and time. "As usual, we could rely on the high quality of HOBAS Products, which is always welcome for the implementation of technical solutions in our plant," says Volodymyr Levshyn, Head of the Water, Wastewater Treatment, and Air Separation Department of Odesa Port Plant.

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*Volodymyr Levshyn,
Odesa Port Plant*

- Year of Construction **2014**
- Construction Time **4 months**
- Length of Pipes Laid **388 m incl. fittings**
- Diameter **DN 400**
- Pressure Class **PN 6**
- Stiffness Class **SN 5000 and 10000**
- Application **Industrial sewer line**
- Installation Method **Open trench, relining, above ground (on overpasses)**
- Client **Odesa Port Plant**
- Contractor **Aquaspezstroj**
- Advantages **Technical support during design stage, fast and easy installation, corrosion and chemical resistance, UV resistance, long service life**

